

# TEST REPORT



## JIMEI ECO-FRIENDLY CELLULOSE ACETATE SHEET TEST REPORT

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Updated Apr. 2025

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# Material Safety Data Sheet (MSDS)

Organization: SGS

Date: 02 Apr 2024

Validity: 3 Years

No.: CANEC24005760601



## SDS Service Summary

No.: CANEC24005760601

Date: 02 Apr 2024

Page 1 of 1

SGS Job No. : SZP24-011399  
Product Name : ECO - Cellulose Acetate Sheet  
Manufacturer / Supplier : SHENZHEN JIMEI NEW MATERIAL CO.,LTD  
Composition/Ingredient of product (as per applicant submission) : See *section 3 Composition/information on ingredients* on the SDS  
Job Receiving Date : 27 Mar 2024  
SDS Preparation Period : 27 Mar 2024-29 Mar 2024  
  
Service Requested : Preparation of Safety Data Sheet (SDS) for the product with submitted information, with calculation of the classification and labeling requirement according to the submitted composition and European Commission Regulation (EC) No 1272/2008.  
  
Summary : As per request, the contents and formats of the SDS are prepared in accordance with European Commission Regulation (EC) No 1907/2006, Regulation (EC) No 1272/2008 and Regulation (EU) No 2020/878, and is provided per attached.

### Disclaimer

This Safety Data Sheet (SDS) is provided to applicant to fulfill European Commission Regulation (EC) No 1907/2006 and communicate the hazard information of chemicals through the supply chain to ensure safe use. It is not a test report or a certificate ensuring the safety of a product.  
SGS has consolidated product information based on documents provided by Applicant (i.e. product name, the supplier details, product composition, available physical data, etc.) without independent verification from SGS. The information is provided without any warranty, express or implied, regarding its correctness.

Jany Zhong  
Project Engineer

# Safety data sheet

## Regulation (EC) 1907/2006 and 1272/2008

Printing date: 29.03.2024

Version number: 1

Revision date: 28.03.2024

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name:** ECO - Cellulose Acetate Sheet
- **UFI:** T140-4045-800V-5NCC
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the mixture:**  
With numerous colors and different dimension, our product, eco-cellulose acetate ,is the main material for many different kinds of products such as eyewear, comb as well as some hair accessories
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer / Supplier:** SHENZHEN JIMEI NEW MATERIAL CO.,LTD
- **Full address:** NO.8-16 JIN YUAN ROAD HENGGANG TOWN,SHENZHEN,GUANGDONG,CHINA
- **Phone number:** 0755-28692111-300
- **Email:** QC@jimei123.com
- **Only Representative / other EU contact point:** Not available
- **1.4 Emergency telephone number:**  
IRELAND  
National Poisons Information Centre  
Tel: +353 (01) 809 2566 (For healthcare professionals)  
+353 (01) 809 2166 (For public; 8am - 10pm)
- **1.5 Reference Number:** CANEC24005760601,SZP24-011399
- **1.6 Remark:**  
This product is likely to be classified as article with substances not intended to be released and is out of scope of a SDS as set out in Regulation (EC) No 1907/2006. This SDS is generated for applicant's reference only.

### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**  
The product is not classified according to the CLP regulation.
- **Information concerning particular hazards for human and environment:**  
The product has not to be labelled due to the calculation procedure of Regulation (EC) No. 1272/2008.
- **Classification system:**  
The classification is according to the latest edition of EU Regulation (EC) No. 1272/2008, and extended by company and literature data.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No. 1272/2008** Not applicable
- **Hazard pictograms** Not applicable
- **Signal word** Not applicable
- **Hazard-determining components of labelling:** Not applicable
- **Hazard statements** Not applicable
- **Precautionary statements** Not applicable
- **2.3 Other hazards:**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable
- **vPvB:** Not applicable
- **Determination of endocrine-disrupting properties** Not applicable

EU

(Contd. on page 2)



# Safety data sheet

## Regulation (EC) 1907/2006 and 1272/2008

Printing date: 29.03.2024

Version number: 1

Revision date: 28.03.2024

Trade name: ECO - Cellulose Acetate Sheet

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### SECTION 3: Composition/information on ingredients

#### · 3.2 Mixtures

##### · Description:

Mixture of the substances listed below with nonhazardous additions.  
For the wording of the listed hazard statements refer to section 16.

##### · Composition:

CAS: 9004-35-7	Cellulose acetate butyrate	>72%
CAS: 102-76-1 EINECS: 203-051-9	Triacetin	<28%
CAS: 7423-31-6 EINECS: 231-047-7	1-ethyl-2-[3-(1-ethylnaphtho[1,2-d]thiazol-2(1H)-ylidene)-2-methyl-1-propenyl]naphtho[1,2-d]thiazolium bromide	<2%

### SECTION 4: First aid measures

#### · 4.1 Description of first aid measures

- **General description:** No special measures required.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.

#### · 4.2 Most important symptoms and effects, both acute and delayed:

No further relevant information available.

#### · 4.3 Indication of any immediate medical attention and special treatment needed:

No further relevant information available.

### SECTION 5: Firefighting measures

#### · 5.1 Extinguishing media

- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.

#### · 5.2 Special hazards arising from the substance or mixture:

No further relevant information available.

#### · 5.3 Advice for firefighters

- **Protective equipment:** No special measures required.

### SECTION 6: Accidental release measures

#### · 6.1 Personal precautions, protective equipment and emergency procedures:

Not required.

#### · 6.2 Environmental precautions:

Do not allow to enter sewers/ surface or ground water.

#### · 6.3 Methods and material for containment and cleaning up:

Pick up mechanically.

#### · 6.4 Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### SECTION 7: Handling and storage

#### · 7.1 Precautions for safe handling:

No special measures required.

For the general occupational hygienic measures refer to Section 8.

(Contd. on page 3)

# Safety data sheet

## Regulation (EC) 1907/2006 and 1272/2008

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Version number: 1

Revision date: 28.03.2024

Trade name: ECO - Cellulose Acetate Sheet

(Contd. from page 2)

- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **7.3 Specific end use(s):** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **DNELs:** Not available
- **PNECs:** Not available
- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**  
Based on the composition shown in Section 3, the following measures are suggested for occupational safety measure.
- **Appropriate engineering controls:** See Section 7 for information about design of technical facilities.
- **Individual protection measures, such as personal protective equipment**
- **Respiratory protection:** Not required.
- **Hand protection:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

- **Material of gloves:**  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material:**  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eyeface protection:** Not required.
- **Body protection:** Protective work clothing
- **Thermal hazards:** Not required for normal conditions of use.
- **Environmental exposure controls:**  
Control measures must be made in accordance with Community environmental protection legislation.

### SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **Physical state:** Solid
- **Colour:** According to product specification
- **Odour:** Odourless

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**Trade name: ECO - Cellulose Acetate Sheet**

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· <b>Odour threshold:</b>	Not available
· <b>Melting point/Freezing point:</b>	Not available
· <b>Boiling point or initial boiling point and boiling range:</b>	Not available
· <b>Flammability:</b>	Not available
· <b>Lower and upper explosion limit</b>	
· <b>Lower:</b>	Not available
· <b>Upper:</b>	Not available
· <b>Flash point:</b>	Not available
· <b>Auto-ignition temperature:</b>	Not available
· <b>Decomposition temperature:</b>	Not available
· <b>pH:</b>	Not available
· <b>Viscosity</b>	
· <b>Kinematic viscosity:</b>	Not available
· <b>Dynamic viscosity:</b>	Not available
· <b>Solubility</b>	
· <b>Water:</b>	Not available
· <b>Partition coefficient n-octanol/water (log value):</b>	Not available
· <b>Vapour pressure:</b>	Not available
· <b>Density and/or relative density</b>	
· <b>Density:</b>	Not available
· <b>Relative density:</b>	Not available
· <b>Relative vapour density:</b>	Not available
· <b>Particle characteristics:</b>	Not available

**· 9.2 Other information**

· <b>Appearance</b>	
· <b>Form:</b>	Solid

· <b>Information with regard to physical hazard classes</b>	
· <b>Explosives:</b>	Not applicable
· <b>Flammable gases:</b>	Not applicable
· <b>Aerosols:</b>	Not applicable
· <b>Oxidising gases:</b>	Not applicable
· <b>Gases under pressure:</b>	Not applicable
· <b>Flammable liquids:</b>	Not applicable
· <b>Flammable solids:</b>	Not applicable
· <b>Self-reactive substances and mixtures:</b>	Not applicable
· <b>Pyrophoric liquids:</b>	Not applicable
· <b>Pyrophoric solids:</b>	Not applicable
· <b>Self-heating substances and mixtures:</b>	Not applicable
· <b>Substances and mixtures, which emit flammable gases in contact with water:</b>	Not applicable
· <b>Oxidising liquids:</b>	Not applicable
· <b>Oxidising solids:</b>	Not applicable
· <b>Organic peroxides:</b>	Not applicable
· <b>Corrosive to metals:</b>	Not applicable
· <b>Desensitised explosives:</b>	Not applicable
· <b>Other safety characteristics:</b>	Not available

## SECTION 10: Stability and reactivity

- **10.1 Reactivity:** No further relevant information available.
- **10.2 Chemical stability:** No further relevant information available.
- **10.3 Possibility of hazardous reactions:** No dangerous reactions known.

(Contd. on page 5)

# Safety data sheet

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Printing date: 29.03.2024

Version number: 1

Revision date: 28.03.2024

Trade name: ECO - Cellulose Acetate Sheet

(Contd. from page 4)

- **10.4 Conditions to avoid:** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

### SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
  - **Acute toxicity** Based on available data, the classification criteria are not met.
  - **LD/LC50 values relevant for classification:** Not available
  - **Skin corrosion/irritation:** Based on available data, the classification criteria are not met.
  - **Serious eye damage/irritation:** Based on available data, the classification criteria are not met.
  - **Respiratory or skin sensitization:** Based on available data, the classification criteria are not met.
  - **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.
  - **Carcinogenicity:** Based on available data, the classification criteria are not met.
  - **Reproductive toxicity:** Based on available data, the classification criteria are not met.
  - **STOT-single exposure:** Based on available data, the classification criteria are not met.
  - **STOT-repeated exposure:** Based on available data, the classification criteria are not met.
  - **Aspiration hazard:** Based on available data, the classification criteria are not met.
- **11.2 Information on other hazards**
  - **Endocrine disrupting properties:**
    - None of the ingredients is listed.
  - **Other information:** No further relevant information available.

### SECTION 12: Ecological information

- **12.1 Toxicity**
  - **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability:** No further relevant information available.
- **12.3 Bioaccumulative potential:** No further relevant information available.
- **12.4 Mobility in soil:** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
  - **PBT:** Not applicable
  - **vPvB:** Not applicable
- **12.6 Endocrine disrupting properties:**
  - The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects:** No further relevant information available.

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
  - **Recommendation:** Smaller quantities can be disposed of with household waste.
- **Uncleaned packaging:**
  - **Recommendation:** Disposal must be made according to official regulations.

EU

(Contd. on page 6)



# Safety data sheet

## Regulation (EC) 1907/2006 and 1272/2008

Printing date: 29.03.2024

Version number: 1

Revision date: 28.03.2024

Trade name: ECO - Cellulose Acetate Sheet

(Contd. from page 5)

### SECTION 14: Transport information

· 14.1 UN number or ID number	
· ADR/RID/ADN, IMDG, IATA	Not applicable
· 14.2 UN proper shipping name	
· ADR/RID/ADN, IMDG, IATA	Not applicable
· 14.3 Transport hazard class(es)	
· ADR/RID/ADN, IMDG, IATA	
· Class	Not applicable
· Label	-
· 14.4 Packing group	
· ADR/RID/ADN, IMDG, IATA	Not applicable
· 14.5 Environmental hazards:	
· Marine pollutant:	No
· 14.6 Special precautions for user:	Not applicable
· Hazard identification number (Kemler code):	-
· 14.7 Maritime transport in bulk according to IMO instruments	Not applicable
· 14.8 Transport/Additional information:	Not dangerous according to the above specifications.
· UN "Model Regulation":	Not applicable

### SECTION 15: Regulatory information

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
· Directive 2012/18/EU
· Named dangerous substances - ANNEX I None of the ingredients is listed.
· Seveso category Not applicable
· Qualifying quantity (tonnes) for the application of lower-tier requirements Not applicable
· Qualifying quantity (tonnes) for the application of upper-tier requirements Not applicable
· REGULATION (EU) 2019/1021 on persistent organic pollutants (POP)
None of the ingredients is listed.
· Regulation (EU) No 649/2012
None of the ingredients is listed.
· REGULATION (EU) 2019/1148
· Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))
None of the ingredients is listed.
· Annex II - REPORTABLE EXPLOSIVES PRECURSORS
None of the ingredients is listed.
· Regulation (EC) No 273/2004 on drug precursors
None of the ingredients is listed.
· Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors
None of the ingredients is listed.
· REGULATION (EC) No 1005/2009 on substances that deplete the ozone layer – ANNEX I (Ozone-depleting potential)
None of the ingredients is listed.

(Contd. on page 7)



# Safety data sheet

## Regulation (EC) 1907/2006 and 1272/2008

Printing date: 29.03.2024

Version number: 1

Revision date: 28.03.2024

**Trade name: ECO - Cellulose Acetate Sheet**

(Contd. from page 6)

· **Other regulations, limitations and prohibitive regulations**

· **SVHC Candidate List of REACH Regulation Annex XIV Authorisation (23/1/2024)**

None of the ingredients is listed

· **REACH Regulation Annex XVII Restriction (25/9/2023)**

See Section 16 for information about restriction of use.

None of the ingredients is listed

· **REACH Regulation Annex XIV Authorisation List (13/11/2023)**

None of the ingredients is listed

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

· **Recommended restriction of use** Not applicable

\*\*\*\*\*

The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, 1272/2008 and Regulation (EU) No 2020/878.

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· **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

\*\*\*\*\*

End of document

# Composition Analysis Test Report

Organization: SGS

Date: Oct 10, 2024

Validity: 3 Years

No.GZMR240902900002

## TEST REPORT

No. : GZMR240902900002

Date : Oct 10, 2024

Page: 1 of 5



CUSTOMER NAME: SHENZHEN JIMEI NEW MATERIAL CO.,LTD  
ADDRESS: NO. 8-16, JINYUAN ROAD, HENGGANG TOWN, SHENZHEN,  
GUANGDONG, CHINA

Sample Name : ECO-CELLULOSE ACETATE SHEET

Above information and sample(s) was/were submitted and confirmed by the client. SGS, however, assumes no responsibility to verify the accuracy, adequacy and completeness of the sample information provided by client.

\*\*\*\*\*

SGS Ref. No. : SZP24-043203  
Date of Receipt : Sep 27, 2024  
Testing Start Date : Sep 27, 2024  
Testing End Date : Oct 10, 2024  
Test result(s) : For further details, please refer to the following page(s)  
(Unless otherwise stated the results shown in this test report refer only to the sample(s) tested)

Signed for  
SGS-CSTC Standards Technical  
Services Co., Ltd. Guangzhou Branch

Cathy Peng  
Authorized signatory



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## TEST REPORT

No. : GZMR240902900002

Date : Oct 10, 2024

Page: 2 of 5

## Summary of Results:

No.	Test Item	Test Method	Result	Conclusion
1	Composition Analysis	FTIR, PGC-MS, GC-MS, TGA and EDX	See result	/

Note: Pass : Meet the requirements;  
Fail : Does not meet the requirements;  
/ : Not Apply to the judgment.



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中国·广东·广州高新技术产业开发区科学城科珠路198号 中国·广东·广州市黄埔区开创大道1501号3栋101房 t(86-20) 82155555 sgs.china@sgs.com



## TEST REPORT

No. : GZMR240902900002

Date : Oct 10, 2024

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Test Item: Composition Analysis

Sample Description: Plastic part

Test Method:

Fourier Transform Infrared Spectrometer (FTIR)

Pyrolysis-Gas Chromatography Mass Spectrometry (PGC-MS)

Gas Chromatography Mass Spectrometry (GC-MS)

Energy dispersive X-ray fluorescence spectrometer (EDX)

Thermogravimetric Analyzer (TGA)

Test Result:

No.	Composition	Content, Wt%
1	Cellulose acetate (CA)	74
2	Triethyl acetyl citrate (TEAC)	26
3	Tributyl acetylcitrate (TBAC)	
4	Glycerol triacetate (GTA)	
5	Diethyl phthalate (DEP)	
6	Pigment (See note 2)	

Note:

1. Wt% - weight percent.
2. Pigment < 1%.
3. Quantitative data is for reference only.



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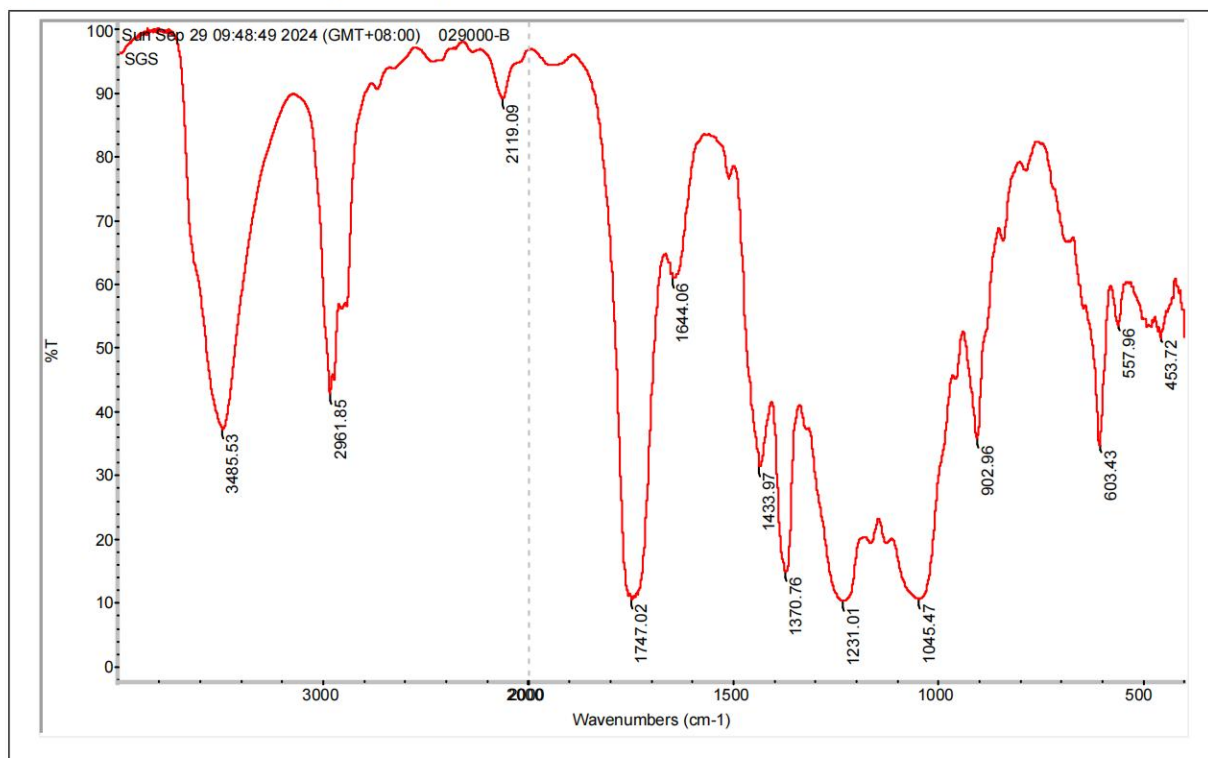
## TEST REPORT

No. : GZMR240902900002

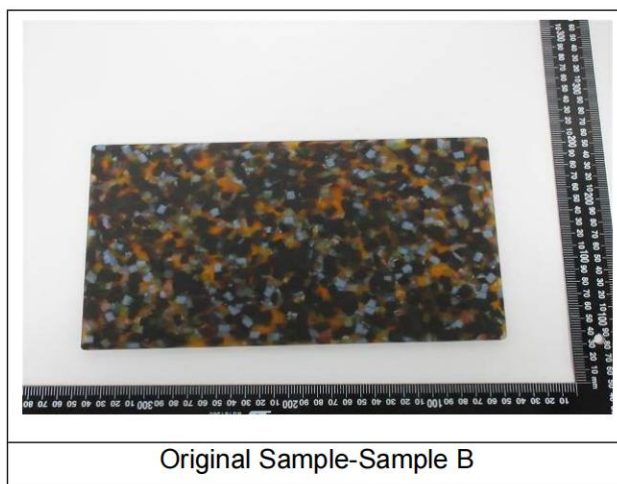
Date : Oct 10, 2024

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Fig.1: FTIR spectrum of original sample



Test Photo:



## TEST REPORT

No. : GZMR240902900002

Date : Oct 10, 2024

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## Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
FTIR	Nicolet iS50	GZMR-PL-E329	2023-12-27	2024-12-26
PGC-MS	Shimadzu GCMS- QP2010	Chem-019-P	2023-02-10	2025-02-09
GC-MS	7890B- 5977B	CHEM-019-CA	2023-06-14	2025-06-13
EDX	ARL QUANT'X	GZMR-PL-E306	2023-12-27	2024-12-26
TGA	TGA 550	GZMR-PL-E425	2024-09-20	2026-09-19

\*\*\*\*\* End of report\*\*\*\*\*



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# EU REACH SVHC Test Report

Organization: SGS

Date: Jul 30, 2024

Validity: 1 Year

No.SZXEC24002233901



## Test Report (SVHC)

No.: SZXEC24002233901

Date: Jul 30, 2024

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Client Name: SHENZHEN JIMEI NEW MATERIAL CO.,LTD

Client Address: NO. 8-16, JINYUAN ROAD, HENGGANG TOWN, SHENZHEN, GUANGDONG, CHINA

Sample Name: ECO-Cellulose Acetate Sheet

The above sample(s) and information were provided by the client.

SGS Job No.: SZP24-030380

Sample Receiving Date: Jul 12, 2024

Testing Period: Jul 12, 2024 ~ Jul 18, 2024

Test Requested: As requested by client, SVHC screening is performed according to:  
(i) Two hundred and forty one (241) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before Jun 27, 2024 regarding Regulation (EC) No 1907/2006 concerning the REACH.  
As requested by client, SVHC screening is performed according to:  
(i) Two (2) potential Substances of Very High Concern (SVHC) in the Identification ongoing.  
(ii) Eight (8) potential Substances of Very High Concern (SVHC) in the Intention List published by European Chemicals Agency (ECHA) regarding Regulation (EC) No 1907/2006 concerning the REACH.

Test Method(s): Please refer to next page(s).

Test Result(s): Please refer to next page(s).

### Summary:

According to the specified scope and evaluation screening, the test results of 241 SVHC in the Candidate List are $\leq 0.1\%$ (w/w) in the submitted sample.	Pass
According to the specified scope and evaluation screening, the test results of 10 Potential SVHC are $\leq 0.1\%$ (w/w) in the submitted sample.	Pass

Signed for and on behalf of  
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Tina

Tina Fan

Approved Signatory

scan to see the report



13A54B61



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## Test Report (SVHC)

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### Remark :

1. The chemical analysis of specified SVHC is performed by means of currently available analytical techniques against the following SVHC related documents published by ECHA:  
<http://echa.europa.eu/web/guest/candidate-list-table>  
These lists are under evaluation by ECHA and may subject to change in the future.

### 2. REACH obligation:

#### 2.1 Concerning article(s):

##### Communication:

Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance in the Candidate List.

##### Notification:

In accordance with Regulation (EC) No 1907/2006, any EU producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation, if (a) the substance in the Candidate List is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance in the Candidate List is present in those articles above a concentration of 0.1% weight by weight (w/w).

Companies supplying articles containing substances of very high concern (SVHCs) on the Candidate List in a concentration above 0.1% weight by weight (w/w) on the EU market must comply with the Waste Framework Directive 2008/98/EC requirement and submit SCIP notifications on these articles to ECHA, as from 5 January 2021.

#### 2.2 Concerning material(s):

Test results in this report are based on the tested sample. This report refers to testing result of tested sample submitted as homogenous material(s). In case such material is being used to compose an article, the results indicated in this report may not represent SVHC concentration in such article. If this report refers to testing result of composite material group by equal weight proportion, the material in each composite test group may come from more than one article.

If the sample is a substance or mixture, and it directly exports to EU, client has the obligation to comply with the supply chain communication obligation under Article 31 of Regulation (EC) No. 1907/2006 and the conditions of Authorization of substance of very high concern included in the Annex XIV of the Regulation (EC) No. 1907/2006.

#### 2.3 Concerning substance and preparation:

If a SVHC is found over 0.1% (w/w) and/or the specific concentration limit which is set in Regulation (EC) No 1272/2008 and its amendments, client is suggested to prepare a Safety Data Sheet (SDS) against the SVHC to comply with the supply chain communication obligation under Regulation (EC) No 1907/2006, in which:

- a substance that is classified as hazardous under the CLP Regulation (EC) No 1272/2008.
- a mixture that is classified as hazardous under the CLP Regulation (EC) No 1272/2008, when it contains a substance with concentration equal to, or greater than the classification limit as set in Regulation (EC) No. 1272/2008; or
- a mixture is not classified as hazardous under the CLP Regulation (EC) No 1272/2008, but contains either:



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- (a) a substance posing human health or environmental hazards in an individual concentration of  $\geq 1\%$  by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures) or  $\geq 0.2\%$  by volume for gaseous mixtures; or
- (b) a substance that is PBT, or vPvB in an individual concentration of  $\geq 0.1\%$  by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures); or
- (c) a substance on the SVHC candidate list (for reasons other than those listed above), in an individual concentration of  $\geq 0.1\%$  by weight for non-gaseous mixtures; or
- (d) a substance for which there are Europe-wide workplace exposure limits

3. If a SVHC is found over the reporting limit, client is suggested to identify the composite component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.

### Test Sample:

### Testing Group:

Test Result ID	Description	Test Part ID	SGS Sample ID
001	Multicolor board	A1	SZX24-0022339-0001.C001

### Test Method:

With reference to SGS In-House method, analysis was performed by ICP-OES, UV-VIS, GC-MS, HPLC-DAD/MS and Colorimetric Method.



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## Test Results: (Substances in the Candidate List of SVHC)

Batch	Substance Name	CAS No.	001 Concentration (%)	RL (%)
-	All tested SVHC in Candidate list	-	ND	-

## Test Results: (Potential SVHC)

Batch	Substance Name	CAS No.	001 Concentration (%)	RL (%)
/	All tested Potential SVHC	-	ND	-

### Notes:

- (1) The table above only shows detected SVHC, and SVHC that below RL are not reported. Please refer to Appendix for the full list of tested SVHC.
- (2) RL = Reporting Limit (Test data will be shown if it  $\geq$  RL. RL is not regulatory limit.)  
ND = Not detected (lower than RL), ND is denoted on the SVHC substance.
- (3) \* The result is based on the calculation of selected element(s) under the worst-case scenario, and the evaluation of substance usage and material properties.  
\*\* The test result is based on the calculation of selected marker(s) and to the worst-case scenario.  
Calculated concentration of boric compounds are based on water extractive boron detected by ICP-OES.  
Calculated concentration of Barium diboron tetraoxide is based on water extractive boron and barium detected by ICP-OES.  
RL = 0.005% is evaluated for element (i.e. cobalt, arsenic, lead, chromium (VI), aluminum, zirconium, boron, strontium, zinc, antimony, titanium, barium, cadmium respectively), except molybdenum  
RL=0.0005%, boron RL=0.0025% (only for Lead bis(tetrafluoroborate)), fluorine RL=0.050%.
- (4) § The substance is proposed for the identification as SVHC only where it contains Michler's ketone (CAS Number: 90-94-8) or Michler's base (CAS Number: 101-61-1)  $\geq 0.1\%$  (w/w).
- (5) / = Potential SVHC

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019.



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# Test Report (SVHC)

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## Appendix

### Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
I	1	4,4'-Diaminodiphenylmethane(MDA)	101-77-9	0.050
I	2	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	0.050
I	3	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	0.050
I	4	Anthracene	120-12-7	0.050
I	5	Benzyl butyl phthalate (BBP)	85-68-7	0.050
I	6	Bis(2-ethylhexyl)phthalate (DEHP)	117-81-7	0.050
I	7	Bis(tributyltin)oxide (TBTO)	56-35-9	0.050
I	8	Cobalt dichloride*	7646-79-9	0.005
I	9	Diarsenic pentaoxide*	1303-28-2	0.005
I	10	Diarsenic trioxide*	1327-53-3	0.005
I	11	Dibutyl phthalate (DBP)	84-74-2	0.050
I	12	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified ( $\alpha$ -HBCDD, $\beta$ -HBCDD, $\gamma$ -HBCDD)	-	0.050
I	13	Lead hydrogen arsenate*	7784-40-9	0.005
I	14	Sodium dichromate*	10588-01-9 /7789-12-0	0.005
I	15	Triethyl arsenate*	15606-95-8	0.005
II	16	2,4-Dinitrotoluene	121-14-2	0.050
II	17	Acrylamide	79-06-1	0.050
II	18	Anthracene oil**	90640-80-5	0.050
II	19	Anthracene oil, anthracene paste**	90640-81-6	0.050
II	20	Anthracene oil, anthracene paste, anthracene fraction**	91995-15-2	0.050
II	21	Anthracene oil, anthracene paste, distn. Lights**	91995-17-4	0.050
II	22	Anthracene oil, anthracene-low**	90640-82-7	0.050
II	23	Diisobutyl phthalate	84-69-5	0.050
II	24	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*	12656-85-8	0.005
II	25	Lead chromate*	7758-97-6	0.005
II	26	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	0.005
II	27	Pitch, coal tar, high temp. **	65996-93-2	0.050
II	28	Tris(2-chloroethyl)phosphate	115-96-8	0.050
III	29	Ammonium dichromate*	7789-09-5	0.005
III	30	Boric acid*	-	0.005
III	31	Disodium tetraborate, anhydrous*	12179-04-3 /1303-96-4 /1330-43-4	0.005
III	32	Potassium chromate*	7789-00-6	0.005
III	33	Potassium dichromate*	7778-50-9	0.005
III	34	Sodium chromate*	7775-11-3	0.005
III	35	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	0.005



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Batch	No.	Substance Name	CAS No.	RL (%)
III	36	Trichloroethylene	79-01-6	0.050
IV	37	2-Ethoxyethanol	110-80-5	0.050
IV	38	2-Methoxyethanol	109-86-4	0.050
IV	39	Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid*	-	0.005
IV	40	Chromium trioxide*	1333-82-0	0.005
IV	41	Cobalt(II) carbonate*	513-79-1	0.005
IV	42	Cobalt(II) diacetate*	71-48-7	0.005
IV	43	Cobalt(II) dinitrate*	10141-05-6	0.005
IV	44	Cobalt(II) sulphate*	10124-43-3	0.005
V	45	1,2,3-trichloropropane	96-18-4	0.050
V	46	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	0.050
V	47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	0.050
V	48	1-methyl-2-pyrrolidone	872-50-4	0.050
V	49	2-ethoxyethyl acetate	111-15-9	0.050
V	50	Hydrazine	302-01-2 /7803-57-8	0.050
V	51	strontium chromate*	7789-06-2	0.005
VI	52	1,2-Dichloroethane	107-06-2	0.050
VI	53	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	0.050
VI	54	2-Methoxyaniline; o-Anisidine	90-04-0	0.050
VI	55	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	0.050
VI	56	Aluminosilicate Refractory Ceramic Fibres*	-	0.005
VI	57	Arsenic acid*	7778-39-4	0.005
VI	58	Bis(2-methoxyethyl) ether	111-96-6	0.050
VI	59	Bis(2-methoxyethyl) phthalate	117-82-8	0.050
VI	60	Calcium arsenate*	7778-44-1	0.005
VI	61	Dichromium tris(chromate)*	24613-89-6	0.005
VI	62	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	0.050
VI	63	Lead diazide, Lead azide*	13424-46-9	0.005
VI	64	Lead dipicrate*	6477-64-1	0.005
VI	65	Lead styphnate*	15245-44-0	0.005
VI	66	N,N-dimethylacetamide	127-19-5	0.050
VI	67	Pentazinc chromate octahydroxide*	49663-84-5	0.005
VI	68	Phenolphthalein	77-09-8	0.050
VI	69	Potassium hydroxyoctaoxodizincatedichromate*	11103-86-9	0.005
VI	70	Trilead diarsenate*	3687-31-8	0.005
VI	71	Zirconia Aluminosilicate Refractory Ceramic Fibres*	-	0.005
VII	72	[4-[[4-anilino-1-naphthyl]]4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)§	2580-56-5	0.050



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## Test Report (SVHC)

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Batch	No.	Substance Name	CAS No.	RL (%)
VII	73	[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) §	548-62-9	0.050
VII	74	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	0.050
VII	75	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	0.050
VII	76	4,4'-bis(dimethylamino) benzophenone (Michler's Ketone)	90-94-8	0.050
VII	77	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol§	561-41-1	0.050
VII	78	Diboron trioxide*	1303-86-2	0.005
VII	79	Formamide	75-12-7	0.050
VII	80	Lead(II) bis(methanesulfonate)*	17570-76-2	0.005
VII	81	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	0.050
VII	82	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	2451-62-9	0.050
VII	83	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) §	6786-83-0	0.050
VII	84	β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6	0.050
VIII	85	[Phthalato(2-)]dioxotrilead*	69011-06-9	0.005
VIII	86	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	0.050
VIII	87	1,2-Diethoxyethane	629-14-1	0.050
VIII	88	1-Bromopropane	106-94-5	0.050
VIII	89	3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	0.050
VIII	90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	-	0.050
VIII	91	4,4'-Methylenedi-o-toluidine	838-88-0	0.050
VIII	92	4,4'-Oxydianiline and its salts	101-80-4	0.050
VIII	93	4-Aminoazobenzene	60-09-3	0.050
VIII	94	4-Methyl-m-phenylenediamine	95-80-7	0.050
VIII	95	4-Nonylphenol, branched and linear	-	0.050
VIII	96	6-Methoxy-m-toluidine	120-71-8	0.050
VIII	97	Acetic acid, lead salt, basic*	51404-69-4	0.005
VIII	98	Biphenyl-4-ylamine	92-67-1	0.050
VIII	99	Decabromodiphenyl ether (DecaBDE)	1163-19-5	0.050
VIII	100	Cyclohexane-1,2-dicarboxylic anhydride, cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	-	0.050
VIII	101	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	0.050



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Batch	No.	Substance Name	CAS No.	RL (%)
VIII	102	Dibutyltin dichloride (DBTC)	683-18-1	0.050
VIII	103	Diethyl sulphate	64-67-5	0.050
VIII	104	Diisopentylphthalate	605-50-5	0.050
VIII	105	Dimethyl sulphate	77-78-1	0.050
VIII	106	Dinoseb	88-85-7	0.050
VIII	107	Dioxobis(stearato)trilead*	12578-12-0	0.005
VIII	108	Fatty acids, C16-18, lead salts*	91031-62-8	0.005
VIII	109	Furan	110-00-9	0.050
VIII	110	Henicosafuoroundecanoic acid	2058-94-8	0.050
VIII	111	Heptacosafuorotetradecanoic acid	376-06-7	0.050
VIII	112	Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	-	0.050
VIII	113	Lead bis(tetrafluoroborate)*	13814-96-5	0.005
VIII	114	Lead cyanamide*	20837-86-9	0.005
VIII	115	Lead dinitrate*	10099-74-8	0.005
VIII	116	Lead monoxide*	1317-36-8	0.005
VIII	117	Lead oxide sulfate*	12036-76-9	0.005
VIII	118	Lead tetroxide (orange lead)*	1314-41-6	0.005
VIII	119	Lead titanium trioxide*	12060-00-3	0.005
VIII	120	Lead titanium zirconium oxide*	12626-81-2	0.005
VIII	121	Methoxyacetic acid	625-45-6	0.050
VIII	122	Methyloxirane (Propylene oxide)	75-56-9	0.050
VIII	123	N,N-Dimethylformamide	68-12-2	0.050
VIII	124	N-Methylacetamide	79-16-3	0.050
VIII	125	N-Pentyl-isopentylphthalate	776297-69-9	0.050
VIII	126	o-Aminoazotoluene	97-56-3	0.050
VIII	127	o-Toluidine	95-53-4	0.050
VIII	128	Pentacosafuorotridecanoic acid	72629-94-8	0.050
VIII	129	Pentalead tetraoxide sulphate*	12065-90-6	0.005
VIII	130	Pyrochlore, antimony lead yellow*	8012-00-8	0.005
VIII	131	Silicic acid, barium salt, lead-doped*	68784-75-8	0.005
VIII	132	Silicic acid, lead salt*	11120-22-2	0.005
VIII	133	Sulfurous acid, lead salt, dibasic*	62229-08-7	0.005
VIII	134	Tetraethyllead*	78-00-2	0.005
VIII	135	Tetralead trioxide sulphate*	12202-17-4	0.005
VIII	136	Tricosafuorododecanoic acid	307-55-1	0.050
VIII	137	Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	0.005
VIII	138	Trilead dioxide phosphonate*	12141-20-7	0.005
IX	139	4-Nonylphenol, branched and linear, ethoxylated	-	0.050
IX	140	Ammonium pentadecafluorooctanoate (APFO)**	3825-26-1	0.050
IX	141	Cadmium oxide*	1306-19-0	0.005
IX	142	Cadmium	7440-43-9	0.005
IX	143	Dipentyl phthalate (DPP)	131-18-0	0.050



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Batch	No.	Substance Name	CAS No.	RL (%)
IX	144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	0.050
X	145	Cadmium sulphide*	1306-23-6	0.005
X	146	Dihexyl phthalate	84-75-3	0.050
X	147	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	0.050
X	148	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7	0.050
X	149	Imidazolidine-2-thione; (2-imidazoline-2-thiol)	96-45-7	0.050
X	150	Lead di(acetate)*	301-04-2	0.005
X	151	Trixylyl phosphate	25155-23-1	0.050
XI	152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	0.050
XI	153	Cadmium chloride*	10108-64-2	0.005
XI	154	Sodium perborate; perboric acid, sodium salt*	-	0.005
XI	155	Sodium peroxometaborate*	7632-04-4	0.005
XII	156	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	0.050
XII	157	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	0.050
XII	158	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	0.050
XII	159	Cadmium fluoride*	7790-79-6	0.005
XII	160	Cadmium sulphate*	10124-36-4 /31119-53-6	0.005
XII	161	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate & 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE & MOTE)	-	0.050
XIII	162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate	-	0.050
XIII	163	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]	-	0.050
XIV	164	1,3-propanesultone	1120-71-4	0.050
XIV	165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	0.050
XIV	166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	0.050



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Batch	No.	Substance Name	CAS No.	RL (%)
XIV	167	Nitrobenzene	98-95-3	0.050
XIV	168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	-	0.050
XV	169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	0.050
XVI	170	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7	0.050
XVI	171	4-Heptylphenol, branched and linear	-	0.050
XVI	172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	-	0.050
XVI	173	p-(1,1-dimethylpropyl)phenol	80-46-6	0.050
XVII	174	Perfluorohexane-1-sulphonic acid and its salts	-	0.050
XVIII	175	1,6,7,8,9,14,15,16,17,18,18-Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof]	-	0.050
XVIII	176	Benz[a]anthracene	56-55-3	0.050
XVIII	177	Cadmium nitrate*	10325-94-7	0.005
XVIII	178	Cadmium carbonate*	513-78-0	0.005
XVIII	179	Cadmium hydroxide*	21041-95-2	0.005
XVIII	180	Chrysene	218-01-9	0.050
XVIII	181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear]	-	0.050
XIX	182	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride) (TMA)	552-30-7	0.050
XIX	183	Benzo[ghi]perylene	191-24-2	0.050
XIX	184	Decamethylcyclopentasiloxane (D5)	541-02-6	0.050
XIX	185	Dicyclohexyl phthalate (DCHP)	84-61-7	0.050
XIX	186	Disodium octaborate*	12008-41-2	0.005
XIX	187	Dodecamethylcyclohexasiloxane (D6)	540-97-6	0.050
XIX	188	Ethylenediamine (EDA)	107-15-3	0.050
XIX	189	Lead	7439-92-1	0.005
XIX	190	Octamethylcyclotetrasiloxane (D4)	556-67-2	0.050
XIX	191	Terphenyl, hydrogenated	61788-32-7	0.050
XX	192	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor)	15087-24-8	0.050
XX	193	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	0.050
XX	194	Benzo[k]fluoranthene	207-08-9	0.050
XX	195	Fluoranthene	206-44-0	0.050
XX	196	Phenanthrene	85-01-8	0.050
XX	197	Pyrene	129-00-0	0.050
XXI	198	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)	-	0.050
XXI	199	2-methoxyethyl acetate	110-49-6	0.050



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Batch	No.	Substance Name	CAS No.	RL (%)
XXI	200	4-tert-butylphenol (PTBP)	98-54-4	0.050
XXI	201	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with $\geq 0.1\%$ w/w of 4-nonylphenol, branched and linear (4-NP)	-	0.050
XXII	202	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	0.050
XXII	203	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	0.050
XXII	204	Diisohexyl phthalate	71850-09-4	0.050
XXII	205	Perfluorobutane sulfonic acid (PFBS) and its salts	-	0.050
XXIII	206	1-vinylimidazole	1072-63-5	0.050
XXIII	207	2-methylimidazole	693-98-1	0.050
XXIII	208	Butyl 4-hydroxybenzoate	94-26-8	0.050
XXIII	209	Dibutylbis(pentane-2,4-dionato-O,O')tin**	22673-19-4	0.050
XXIV	210	bis(2-(2-methoxyethoxy)ethyl) ether	143-24-8	0.050
XXIV	211	Dioctyltin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety**	-	0.050
XXV	212	1,4-Dioxane	123-91-1	0.050
XXV	213	2,2-bis(bromomethyl)propane1,3-diol (BMP); 2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA); 2,3-dibromo-1-propanol (2,3-DBPA)	-	0.050
XXV	214	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	-	0.050
XXV	215	4,4'-(1-methylpropylidene)bisphenol; (bisphenol B)	77-40-7	0.050
XXV	216	Glutaral	111-30-8	0.050
XXV	217	Medium-chain chlorinated paraffins (MCCP) [UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17]	-	0.050
XXV	218	Orthoboric acid, sodium salt*	13840-56-7	0.005
XXV	219	Phenol, alkylation products (mainly in para position) with C12-rich branched or linear alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)	-	0.050
XXVI	220	( $\pm$ )-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC)	-	0.050
XXVI	221	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol (DBMC)	119-47-1	0.050



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## Test Report (SVHC)

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Batch	No.	Substance Name	CAS No.	RL (%)
XXVI	222	S-(tricyclo[5.2.1.0 <sup>2,6</sup> ]deca-3-en-8(or 9)-yl) O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate	255881-94-8	0.050
XXVI	223	Tris(2-methoxyethoxy)vinylsilane	1067-53-4	0.050
XXVII	224	N-(hydroxymethyl)acrylamide	924-42-5	0.050
XXVIII	225	1,1'-[ethane-1,2-diylbis(oxy)]bis[2,4,6-tribromobenzene]	37853-59-1	0.050
XXVIII	226	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol	79-94-7	0.050
XXVIII	227	4,4'-sulphonyldiphenol	80-09-1	0.050
XXVIII	228	Barium diboron tetraoxide*	13701-59-2	0.005
XXVIII	229	Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof	-	0.050
XXVIII	230	Isobutyl 4-hydroxybenzoate	4247-02-3	0.050
XXVIII	231	Melamine	108-78-1	0.050
XXVIII	232	Perfluoroheptanoic acid and its salts	-	0.050
XXVIII	233	reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropan-2-yl)morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine*	-	0.050
XXIX	234	Bis(4-chlorophenyl) sulphone	80-07-9	0.050
XXIX	235	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8	0.050
XXX	236	2,4,6-tri-tert-butylphenol	732-26-3	0.050
XXX	237	2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol (UV-329)	3147-75-9	0.050
XXX	238	2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[4-(morpholin-4-yl)phenyl]butan-1-one	119344-86-4	0.050
XXX	239	Bumetrizole (UV-326)	3896-11-5	0.050
XXX	240	Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol	-	0.050
XXXI	241	Bis(α,α-dimethylbenzyl) peroxide	80-43-3	0.050
/	242	Triphenyl phosphate	115-86-6	0.050
/	243	Resorcinol	108-46-3	0.050
/	244	Octamethyltrisiloxane	107-51-7	0.050
/	245	1,1,1,3,5,5,5-heptamethyl-3-[(trimethylsilyl)oxy]trisiloxane	17928-28-8	0.050
/	246	1,1,1,3,5,5,5-heptamethyltrisiloxane	1873-88-7	0.050
/	247	Decamethyltetrasiloxane	141-62-8	0.050
/	248	Dodecamethylpentasiloxane	141-63-9	0.050
/	249	Hexamethyldisiloxane	107-46-0	0.050
/	250	O,O,O-triphenyl phosphorothioate	597-82-0	0.050
/	251	Perfluamine	338-83-0	0.050



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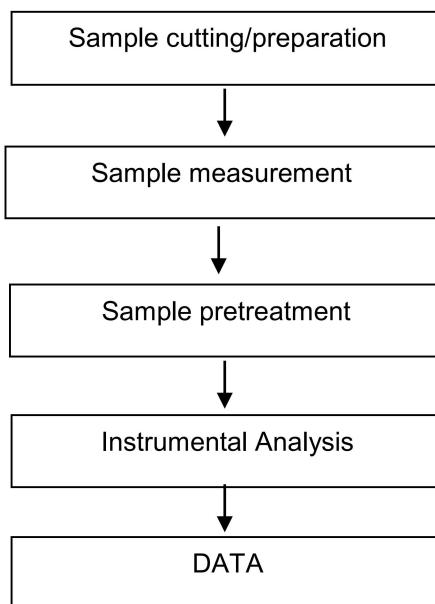
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## ATTACHMENTS

### Testing Flow Chart



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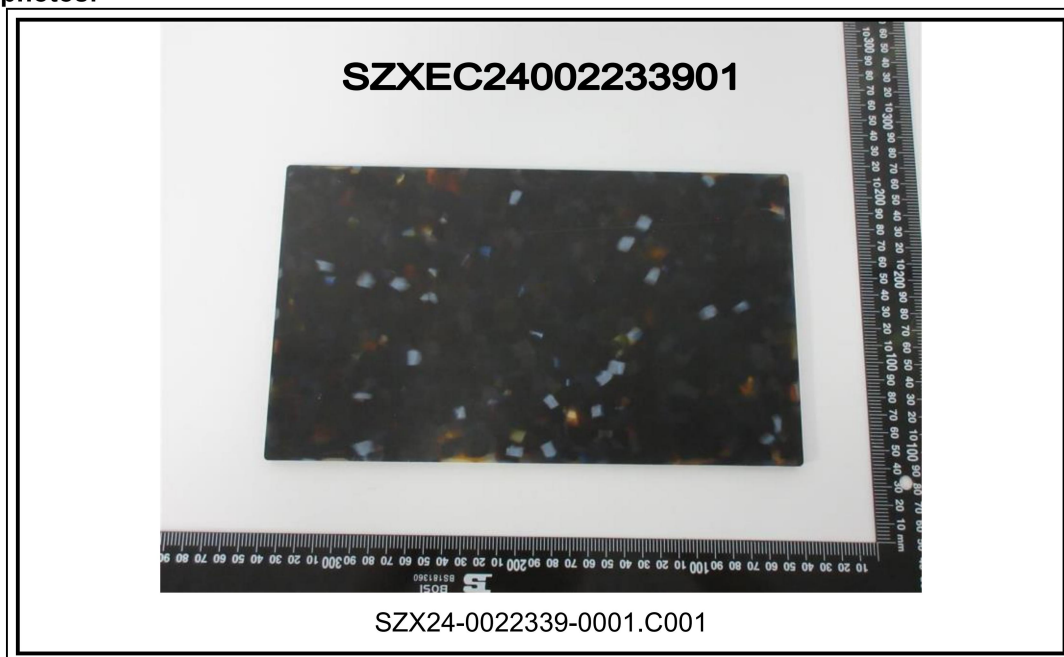
## Test Report (SVHC)

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Sample photos:



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# EU RoHS Directive Test Report

Organization: SGS

Date: Oct 10, 2024

Validity: 1 Year

No.SZXEC24003077603



## Test Report

No.: SZXEC24003077603

Date: Oct 10, 2024

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Client Name: SHENZHEN JIMEI NEW MATERIAL CO.,LTD

Client Address: NO. 8-16, JINYUAN ROAD, HENGGANG TOWN, SHENZHEN, GUANGDONG, CHINA

Sample Name: ECO - Cellulose Acetate Sheet

The above sample(s) and information were provided by the client.

SGS Job No.: SZP24-043175

Sample Receiving Date: Sep 26, 2024

Testing Period: Sep 26, 2024 ~ Sep 30, 2024

Test Requested: Select test(s) as requested by the client.

Test Method(s): Please refer to next page(s).

Test Result(s): Please refer to next page(s).

Test Requirement	Conclusion
EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)	Pass

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

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Approved Signatory

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## Test Report

No.: SZXEC24003077603

Date: Oct 10, 2024

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### Test Result(s):

#### Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A2	SZX24-0030776-0001.C002	Multicolor board

#### Remarks:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

**EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)**

**Test Method:** With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017 and IEC 62321-12:2023, analysis was performed by ICP-OES/AAS, UV-Vis and GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	A2
Lead (Pb)	1000	mg/kg	2	ND
Mercury (Hg)	1000	mg/kg	2	ND
Cadmium (Cd)	100	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))	1000	mg/kg	8	ND
Polybrominated biphenyls (PBB)	1000	mg/kg	-	ND
Monobrominated biphenyl (MonoBB)	-	mg/kg	25	ND
Dibrominated biphenyl (DiBB)	-	mg/kg	25	ND
Tribrominated biphenyl (TriBB)	-	mg/kg	25	ND
Tetrabrominated biphenyl (TetraBB)	-	mg/kg	25	ND
Pentabrominated biphenyl (PentaBB)	-	mg/kg	25	ND
Hexabrominated biphenyl (HexaBB)	-	mg/kg	25	ND
Heptabrominated biphenyl (HeptaBB)	-	mg/kg	25	ND
Octabrominated biphenyl (OctaBB)	-	mg/kg	25	ND
Nonabrominated biphenyl (NonaBB)	-	mg/kg	25	ND
Decabrominated biphenyl (DecaBB)	-	mg/kg	25	ND
Polybrominated diphenyl ethers (PBDE)	1000	mg/kg	-	ND
Monobrominated diphenyl ether (MonoBDE)	-	mg/kg	25	ND
Dibrominated diphenyl ether (DiBDE)	-	mg/kg	25	ND
Tribrominated diphenyl ether (TriBDE)	-	mg/kg	25	ND
Tetrabrominated diphenyl ether (TetraBDE)	-	mg/kg	25	ND
Pentabrominated diphenyl ether (PentaBDE)	-	mg/kg	25	ND
Hexabrominated diphenyl ether (HexaBDE)	-	mg/kg	25	ND
Heptabrominated diphenyl ether (HeptaBDE)	-	mg/kg	25	ND
Octabrominated diphenyl ether (OctaBDE)	-	mg/kg	25	ND



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## Test Report

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Test Item(s)	Limit	Unit(s)	MDL	A2
Nonabrominated diphenyl ether (NonaBDE)	-	mg/kg	25	ND
Decabrominated diphenyl ether (DecaBDE)	-	mg/kg	25	ND
Di-2-Ethyl Hexyl Phthalate (DEHP)	1000	mg/kg	50	ND
Benzyl Butyl Phthalate (BBP)	1000	mg/kg	50	ND
Dibutyl Phthalate (DBP)	1000	mg/kg	50	ND
Diisobutyl Phthalate (DIBP)	1000	mg/kg	50	ND

### Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
- (2) IEC 62321 series is equivalent to EN 62321 series.
- (3) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule ( $w=0$ ) stated in ILAC-G8:09/2019.



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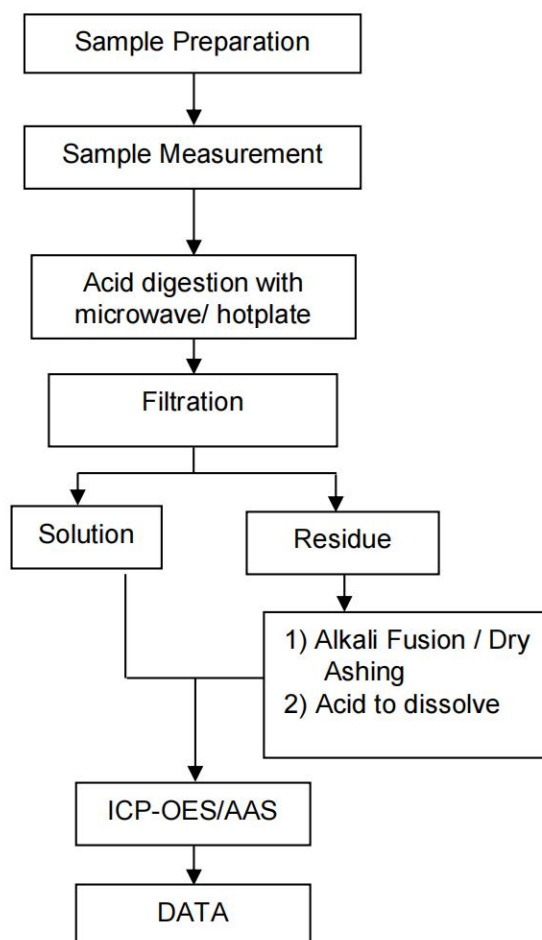
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### Elements Testing Flow Chart

These samples were dissolved totally by pre-conditioning method according to below flow chart.



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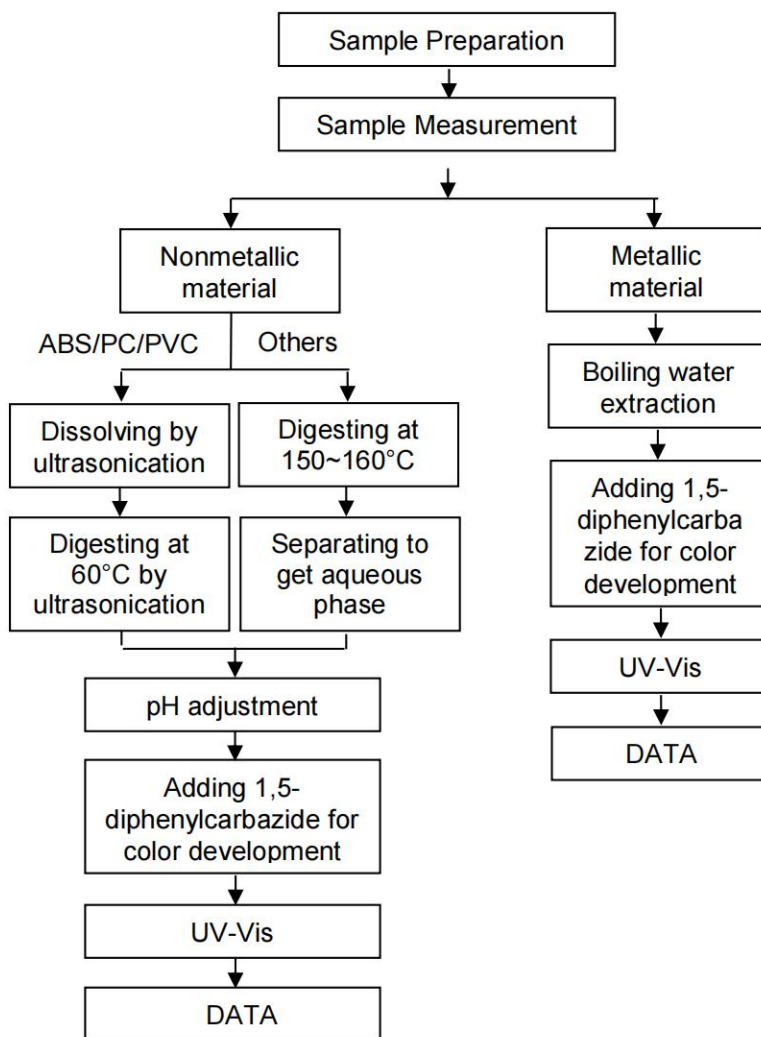
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### Hexavalent Chromium (Cr(VI)) Testing Flow Chart



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## Test Report

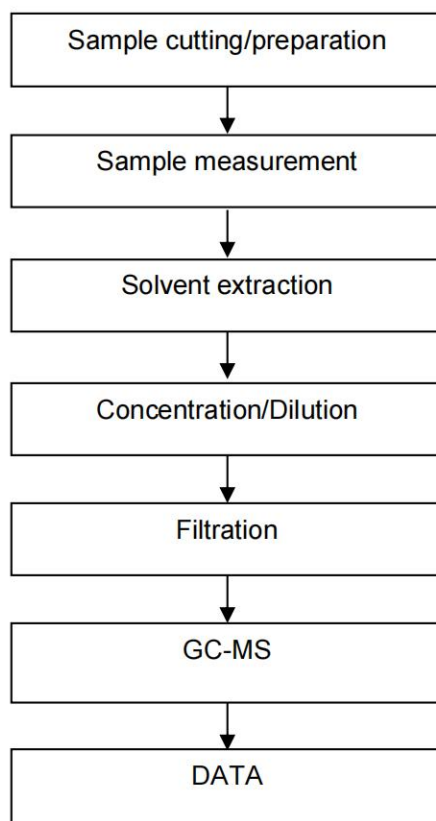
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### PBB/PBDE/Phthalates Testing Flow Chart



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Sample Photo:



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# US California Proposition 65

## Test Report

Organization: SGS

Date: Dec 20, 2024

Validity: 1 Year

No.CANEC24027804613

## Test Report

No.: CANEC24027804613

Date: Dec 20, 2024

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Client Name: SHENZHEN JIMEI NEW MATERIAL CO.,LTD

Client Address: NO. 8-16, JINYUAN ROAD, HENGGANG TOWN, SHENZHEN, GUANGDONG, CHINA

Sample Name: ECO - Cellulose Acetate Sheet

The above sample(s) and information were provided by the client.

SGS Job No.: SZP24-053736

Sample Receiving Date: Dec 10, 2024

Testing Period: Dec 10, 2024 ~ Dec 16, 2024

Test Requested: Select test(s) as requested by the client.

Test Method(s): Please refer to next page(s).

Test Result(s): Please refer to next page(s).

Test Requirement	Conclusion
US California Proposition 65 - Flame retardants	Pass
US California Proposition 65 - Lead	Pass
US California Proposition 65 - Cadmium	Pass
US California Proposition 65- Phthalate	Pass

Signed for and on behalf of  
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

**Arsene Ye**

Arsene Ye  
Approved Signatory

scan to see the report



AD1D1E89



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## Test Report

No.: CANEC24027804613

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### Test Result(s):

#### Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A2	CAN24-0278046-0001.C002	Multicolor board

#### Remarks:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

### US California Proposition 65 - Flame retardants

**Test Method:** With reference to SGS In house method, analysis was performed by GC-MS/LC-MS

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A2
Bis(tert-Butylphenyl)phenyl phosphate(DBPP)	65652-41-7	25	mg/kg	5	ND
4-(tert-Butyl)phenyl Diphenyl Phosphate(MDPP)	56803-37-3	25	mg/kg	5	ND
2-Ethylhexyl tetrabromobenzoate(TBB)	183658-27-7	25	mg/kg	5	ND
Bis(2-ethylhexyl)-2,3,4,5-tetrabromophthalate(TBPH)	26040-51-7	25	mg/kg	5	ND
Tris(4-tert-Butylphenyl)phosphate(TBPP)	28777-70-0 /78-33-1	25	mg/kg	5	ND
Tris(1-chloro-2-propyl)Phosphate(TCPP)	13674-84-5	25	mg/kg	5	ND
Tris(2,3-Dibromopropyl) Phosphat (TDBPP/Tris))	126-72-7	25	mg/kg	5	ND
Triphenyl Phosphate(TPP)	115-86-6	25	mg/kg	5	8
2,2-bis(chloromethyl)trimethylene bis(bis(2-chloroethyl)phosphate)(V6)	38051-10-4	25	mg/kg	5	ND
Pentabromodiphenyl ethers (PentaBDE)	32534-81-9	25	mg/kg	5	ND
Octabromodiphenyl ethers (OctaBDE)	32536-52-0	25	mg/kg	5	ND
Decabromodiphenyl ether (DecaBDE)	1163-19-5	25	mg/kg	5	ND
Tris(1,3-dichloro-2-propyl)Phosphate(TDCPP)	13674-87-8	25	mg/kg	5	ND
Tris(2-chloroethyl)Phosphate(TCEP)	115-96-8	25	mg/kg	5	ND
<b>Conclusion</b>					<b>Pass</b>

#### Notes:

- (1) The limit is referenced to the requirement specified in Settlement Agreement between Alameda Case No. RG-13667688 and RG-13683725.
  - (2) The reference limit applied in testing is based on particular California Proposition 65 settlements that are most similar to the tested product in the opinion of the lab. The testing in this report does not reflect a user's actual exposure to the tested chemical.
- A manufacturer or retailer that is not named in the referenced settlement is not bound by that settlement, and may choose to comply with California Proposition 65 by clearly informing the consumer of potential exposure.



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Date: Dec 20, 2024

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## US California Proposition 65 - Lead

**Test Method:** With reference to CPSC-CH-E1002-08.3, analysis was performed by AAS/ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	A2
Lead (Pb)	100	mg/kg	20	ND
<b>Conclusion</b>				<b>Pass</b>

### Notes:

(1) The limit is referenced to the requirement as stated in County of San Mateo Case No. CIV 512114.

(2) The reference limit applied in testing is based on particular California Proposition 65 settlements that are most similar to the tested product in the opinion of the lab. The testing in this report does not reflect a user's actual exposure to the tested chemical.

A manufacturer or retailer that is not named in the referenced settlement is not bound by that settlement, and may choose to comply with California Proposition 65 by clearly informing the consumer of potential exposure.

## US California Proposition 65 - Cadmium

**Test Method:** With reference to CPSC-CH-E1002-08.3, analysis was performed by AAS/ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	A2
Cadmium(Cd)	300	mg/kg	5	ND
<b>Conclusion</b>				<b>Pass</b>

### Notes:

(1) The limit is referenced to the requirement as stated in County of Alameda Court Case No. RG-10-514803.

(2) The reference limit applied in testing is based on particular California Proposition 65 settlements that are most similar to the tested product in the opinion of the lab. The testing in this report does not reflect a user's actual exposure to the tested chemical.

A manufacturer or retailer that is not named in the referenced settlement is not bound by that settlement, and may choose to comply with California Proposition 65 by clearly informing the consumer of potential exposure.

## US California Proposition 65- Phthalate

**Test Method:** With reference to CPSC-CH-C1001-09.4, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A2
Dibutyl Phthalate(DBP)	84-74-2	1000	mg/kg	50	ND
Benzyl Butyl Phthalate(BBP)	85-68-7	1000	mg/kg	50	ND
Bis-(2-ethylhexyl) Phthalate(DEHP)	117-81-7	1000	mg/kg	50	ND
Diisononyl Phthalate (DINP)	28553-12-0 /68515-48-0	1000	mg/kg	50	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 /68515-49-1	1000	mg/kg	50	ND
Di-n-Hexyl Phthalate(DnHP)	84-75-3	1000	mg/kg	50	ND
<b>Conclusion</b>					<b>Pass</b>



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### Notes:

(1) The limit is referenced to the requirement specified in Settlement Agreement between Marin Court Case No. CIV 091146 and County of Santa Clara Case No. 114CV267501.

(2) The reference limit applied in testing is based on particular California Proposition 65 settlements that are most similar to the tested product in the opinion of the lab. The testing in this report does not reflect a user's actual exposure to the tested chemical. A manufacturer or retailer that is not named in the referenced settlement is not bound by that settlement, and may choose to comply with California Proposition 65 by clearly informing the consumer of potential exposure.

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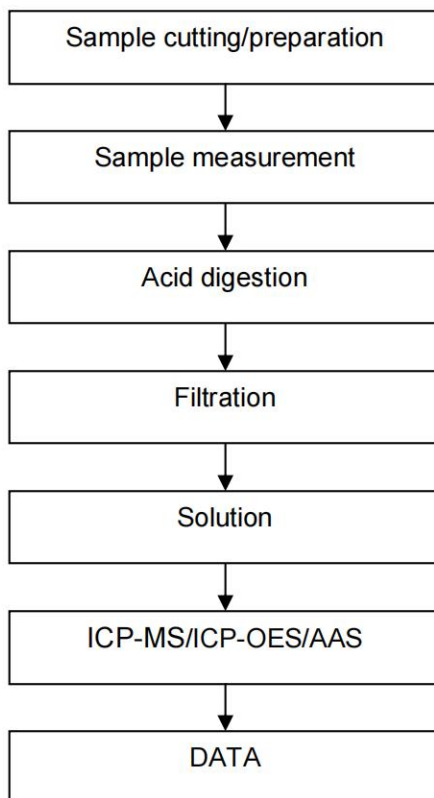
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## Elements Testing Flow Chart



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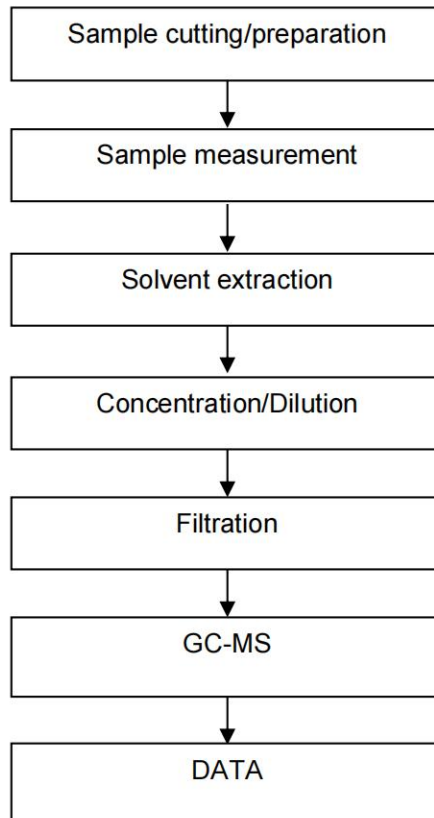
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### Phthalates Testing Flow Chart



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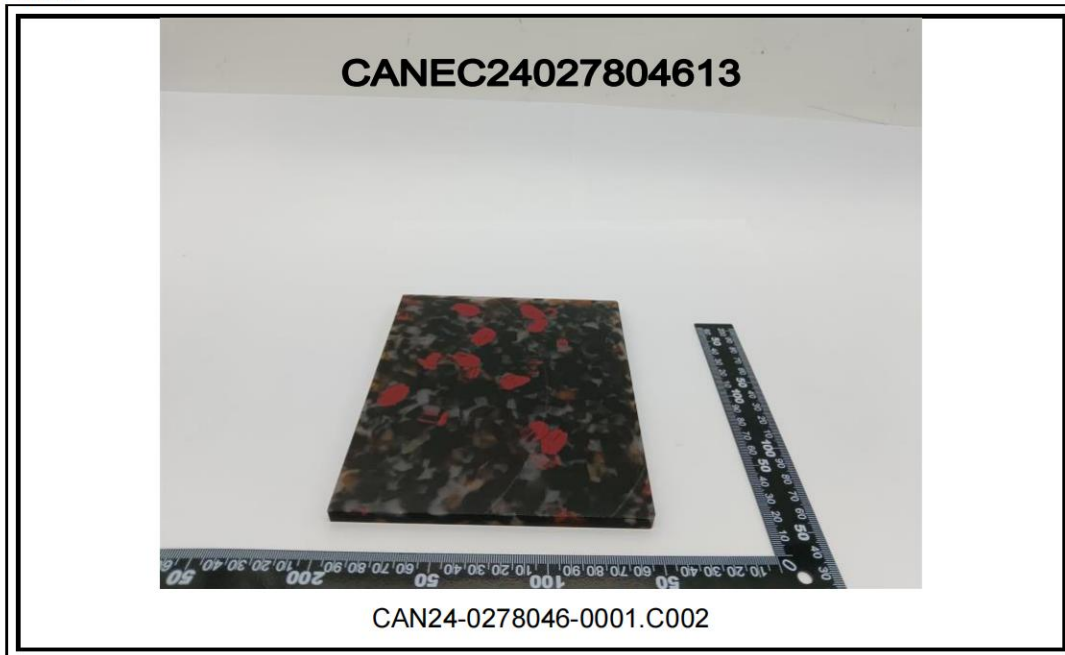
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# Cellulose Acetate Plastic Biodegradable Test Report

Organization: NTSQP  
Date: AUG. 10, 2021  
No. NTSQP[2021]C0713



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TESTING  
CNAS L0251

NTSQP

# China National Centre for Quality Supervision & Test of Plastic Products (Beijing)

## Test Report

Clients\* Sichuan Push Acetati Co., Ltd.

Producer\* Sichuan Push Acetati Co., Ltd.

Sample Name\* Environmental-friendly Cellulose Acetate Plastic

Type and specification\* ECA

Trade Mark\*

Inspection Sort Entrust Test

Report Number NTSQP[2021]C0713

Date of Report Aug. 10, 2021

## Matters need attention

**NTSQP**

1. The client's objection, in case there is any, shall be submitted in the written form within 15days upon receipt of the test report. No acceptance shall be allowed when the objection is overdue.
2. The test report shall be invalid to have no Report Cachet when it was copied
3. The test report shall be invalid when it is incomplete.
4. The test report is responsible to the client only for the submitted sample(s) .
5. The content of the items with the symbol '\*' and Client's statement is supplied by the Client, Center is not responsible to confirm it's authenticity.
6. The Chinese and English versions have been made. Should there be any differences in interpretation, the Chinese version would be the controlling document.

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Centre address: 11Fucheng Road, Beijing, China Post: 100048

Centre Tel: 010-68983956 68985371 Fax: 010-68983571

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[http:// www.ntsqp.org.cn](http://www.ntsqp.org.cn)



## Test Report

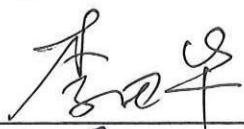
NTSQP

Report No.: NTSQP[2021]C0713

Sample No: 2020E0527

Client(s)*	Sichuan Push Acetati Co., Ltd.		Inspection Sort	Entrust Test	
Address*	Push Acetati Company, Changning County, Yibin City, Sichuan Province 644300		Contact Man*	Zhang Mei	
Sample Name*	Environmental-friendly Cellulose Acetate Plastic		Telephone No.*	15928955377	
Producer*	Sichuan Push Acetati Co., Ltd.		Trade Mark*	----	
Type and specification*	ECA	Testing Period	Sep. 27, 2020 to Jul. 18, 2021		
Sample's Quantity	500g	Date of Production*	Jun. 2020	Receiving Date	Aug. 31, 2020
Descriptions of Sample and/or Sampling	Sample is white powder.				
No.	Item(s) Tested	Test Result(s)		Standard of Test	
01	Degree of biodegradation The degree of biodegradation (after 45 days), % The final degree of biodegradation (after 180 days), % (The biodegradation procedure and curve, are given in annex) (No text below this column)	48.1 92.7		GB/T 19277.1-2011	
Note	The degree of biodegradation (180d) of test sample and cellulose as reference material is 92.73% and 94.80% respectively. The relative degree of biodegradation (180d) of test sample corresponding to that of reference material is 97.8%.				

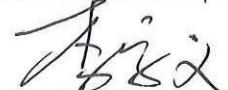
Approved by:



Reviewed by:



Tested by:



Date:

Aug. 10, 2021

APPENDIX

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Controlled aerobic composting test-----Test Report

Sample: Environmental-friendly Cellulose Acetate Plastic

Reference material: Cellulose

Origin of Compost: BEIJING

Age of compost: 3 Months

Volume of test vessels: 3L

Method of CO<sub>2</sub> determination: The CO<sub>2</sub> in the exhaust air was measured directly with a continuous infrared analyser.

Reference standard: GB/T 19277.1-2011

Result of the test

	45d degree of biodegradation %	180d final degree of biodegradation %
Sample	48.1	92.7
Reference material	76.1	94.8

Validity criteria:

1) Whether the degree of biodegradation of reference material after 45day >70%?

☒YES

☐NO

2) Dose mean CO<sub>2</sub> production in the blank vessels after 10days in the range 50mg to 150mg CO<sub>2</sub>/g volatile solids?

☒YES

☐NO



## APPENDIX

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Table 1 Basic Properties of samples

Samples	Appearance	Dry solids (%)	Moisture (%)	TOC in dry solid (%)	ThCO <sub>2</sub> (CO <sub>2</sub> g/100g sample)
Test material	powder	90.85	9.15	54.68	200.49
Reference material	powder	99.81	0.19	42.91	157.34

Table 2 Volume of evolved CO<sub>2</sub> and rate of biodegradation

Day	(CO <sub>2</sub> ) <sub>B1</sub> g	(CO <sub>2</sub> ) <sub>B2</sub> g	D <sub>1</sub> %	(CO <sub>2</sub> ) <sub>B3</sub> g	D <sub>2</sub> %
180	72.7	149.2	94.8	185.9	92.7

(CO<sub>2</sub>)<sub>B1</sub>: volume of CO<sub>2</sub> evolved from blank vessel(CO<sub>2</sub>)<sub>B2</sub>: volume of CO<sub>2</sub> evolved from reference material(CO<sub>2</sub>)<sub>B3</sub>: volume of CO<sub>2</sub> evolved from sampleD<sub>1</sub>: reference material's rate of biodegradationD<sub>2</sub>: sample's rate of biodegradationTable 3 Volume of evolved CO<sub>2</sub> and rate of biodegradation

Day	Evolved CO <sub>2</sub> , g					Degree of biodegradation, %	
	Blank	Cellulose	2020E0527	Cellulose(actual)	2020E0527(actual)	Cellulose	2020E0527
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	2.23	3.31	3.04	1.08	0.81	0.69	0.40
2	4.20	6.41	5.97	2.21	1.77	1.40	0.88
3	6.01	9.85	8.77	3.84	2.76	2.44	1.38
4	7.86	13.00	11.59	5.14	3.73	3.27	1.86
5	9.58	16.40	15.36	6.82	5.78	4.33	2.88
6	11.32	20.06	18.56	8.74	7.24	5.55	3.61
7	12.97	23.94	21.74	10.97	8.77	6.97	4.37
8	14.57	27.98	24.97	13.41	10.40	8.52	5.19
9	16.15	32.23	28.40	16.08	12.25	10.22	6.11
10	17.68	36.56	30.94	18.88	13.26	12.00	6.61
11	19.16	41.10	34.15	21.94	14.99	13.94	7.48
12	20.57	45.59	37.55	25.02	16.98	15.90	8.47
13	21.99	50.08	40.23	28.09	18.24	17.85	9.10
14	23.36	54.57	43.59	31.21	20.23	19.84	10.09



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Report No.: NTSQP[2021]C0713

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Day	Evolved CO <sub>2</sub> , g					Degree of biodegradation,%	
	Blank	Cellulose	2020E0527	Cellulose(actual)	2020E0527(actual)	Cellulose	2020E0527
15	24.71	59.05	47.00	34.34	22.29	21.83	11.12
16	26.02	63.55	50.94	37.53	24.92	23.85	12.43
17	27.38	67.95	54.87	40.57	27.49	25.78	13.71
18	28.74	72.09	58.65	43.35	29.91	27.55	14.92
19	30.08	76.59	62.51	46.51	32.43	29.56	16.18
20	31.37	81.18	66.45	49.81	35.08	31.66	17.50
21	32.65	85.58	70.41	52.93	37.76	33.64	18.83
22	33.93	90.04	73.78	56.11	39.85	35.66	19.88
23	35.08	94.49	77.22	59.41	42.14	37.76	21.02
24	36.27	98.46	80.65	62.19	44.38	39.53	22.14
25	37.40	102.37	83.96	64.97	46.56	41.29	23.22
26	38.58	106.36	87.26	67.78	48.68	43.08	24.28
27	39.70	110.63	90.28	70.93	50.58	45.08	25.23
28	40.80	114.72	93.40	73.92	52.60	46.98	26.24
29	41.86	118.67	96.38	76.81	54.52	48.82	27.19
30	42.91	122.94	100.13	80.03	57.22	50.86	28.54
31	43.82	126.83	103.79	83.01	59.97	52.76	29.91
32	44.68	130.77	107.14	86.09	62.46	54.72	31.15
33	45.49	135.16	110.42	89.67	64.93	56.99	32.39
34	46.28	138.91	113.92	92.63	67.64	58.87	33.74
35	47.05	142.64	117.60	95.59	70.55	60.75	35.19
36	47.73	146.30	121.02	98.57	73.29	62.65	36.56
37	48.39	150.00	124.44	101.61	76.05	64.58	37.93
38	49.01	153.24	127.67	104.23	78.66	66.25	39.23
39	49.60	156.45	131.27	106.85	81.67	67.91	40.74
40	50.17	159.56	134.47	109.39	84.30	69.52	42.05
41	50.71	162.50	137.22	111.79	86.51	71.05	43.15
42	51.24	165.43	140.17	114.19	88.93	72.58	44.36
43	51.78	168.16	143.17	116.38	91.39	73.97	45.58
44	52.30	170.50	146.32	118.20	94.02	75.12	46.90
45	52.76	172.46	149.26	119.70	96.50	76.08	48.13
46	53.22	174.35	151.87	121.13	98.65	76.99	49.20
47	53.68	176.08	154.46	122.40	100.78	77.79	50.27
48	54.13	177.69	157.03	123.56	102.90	78.53	51.32

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Day	Evolved CO <sub>2</sub> , g					Degree of biodegradation, %	
	Blank	Cellulose	2020E0527	Cellulose(actual)	2020E0527(actual)	Cellulose	2020E0527
49	54.60	179.08	159.36	124.48	104.76	79.12	52.25
50	55.13	180.41	161.92	125.28	106.79	79.62	53.26
51	55.59	181.72	164.49	126.13	108.90	80.16	54.32
52	56.05	182.89	166.79	126.84	110.74	80.62	55.23
53	56.49	184.20	169.42	127.71	112.93	81.17	56.33
54	56.90	186.06	171.43	129.16	114.53	82.09	57.13
55	57.31	187.56	173.78	130.25	116.47	82.78	58.09
56	57.68	189.17	175.89	131.49	118.21	83.57	58.96
57	58.04	190.47	177.96	132.43	119.92	84.17	59.81
58	58.43	191.78	179.96	133.35	121.53	84.75	60.62
59	58.82	192.99	181.96	134.17	123.14	85.27	61.42
60	59.20	194.07	183.83	134.87	124.63	85.72	62.16
61	59.59	195.14	185.60	135.55	126.01	86.15	62.85
62	59.97	196.15	187.46	136.18	127.49	86.55	63.59
63	60.35	197.21	189.21	136.86	128.86	86.98	64.27
64	60.75	198.27	190.98	137.52	130.23	87.40	64.96
65	61.16	199.25	192.69	138.09	131.53	87.77	65.60
66	61.56	200.16	194.35	138.60	132.79	88.09	66.23
67	61.95	200.93	196.35	138.98	134.40	88.33	67.04
68	62.34	201.67	198.24	139.33	135.90	88.55	67.78
69	62.75	202.40	200.02	139.65	137.27	88.76	68.47
70	63.12	203.10	201.87	139.98	138.75	88.97	69.21
71	63.48	203.75	203.84	140.27	140.36	89.15	70.01
72	63.83	204.24	205.72	140.41	141.89	89.24	70.77
73	64.21	204.74	207.72	140.53	143.51	89.32	71.58
74	64.57	205.16	209.63	140.59	145.06	89.35	72.35
75	64.94	205.58	211.64	140.64	146.70	89.39	73.17
76	65.33	206.00	213.80	140.67	148.47	89.41	74.05
77	65.68	206.40	216.11	140.72	150.43	89.44	75.03
78	66.02	206.81	218.31	140.79	152.29	89.48	75.96
79	66.33	207.17	220.43	140.84	154.10	89.51	76.86
80	66.61	207.50	222.52	140.89	155.91	89.54	77.76
81	66.90	207.85	224.55	140.95	157.65	89.58	78.63
82	67.12	208.17	226.34	141.05	159.22	89.65	79.42



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Day	Evolved CO <sub>2</sub> , g					Degree of biodegradation,%	
	Blank	Cellulose	2020E0527	Cellulose(actual)	2020E0527(actual)	Cellulose	2020E0527
83	67.33	208.47	227.82	141.14	160.49	89.70	80.05
84	67.56	208.75	229.62	141.19	162.06	89.74	80.83
85	67.79	209.09	230.99	141.30	163.20	89.81	81.40
86	68.01	209.39	232.22	141.38	164.21	89.86	81.90
87	68.20	209.73	233.52	141.53	165.32	89.95	82.46
88	68.38	210.08	234.67	141.70	166.29	90.06	82.94
89	68.56	210.41	235.90	141.85	167.34	90.16	83.47
90	68.73	210.71	236.95	141.98	168.22	90.24	83.90
91	68.86	211.05	238.12	142.19	169.26	90.37	84.42
92	68.97	211.37	239.23	142.40	170.26	90.50	84.92
93	69.08	211.71	240.42	142.63	171.34	90.65	85.46
94	69.20	212.04	241.38	142.84	172.18	90.78	85.88
95	69.31	212.41	242.24	143.10	172.93	90.95	86.25
96	69.43	212.78	243.03	143.35	173.60	91.11	86.59
97	69.52	213.11	243.73	143.59	174.21	91.26	86.89
98	69.61	213.46	244.29	143.85	174.68	91.43	87.13
99	69.69	213.79	244.93	144.10	175.24	91.59	87.41
100	69.75	214.12	245.53	144.37	175.78	91.76	87.68
101	69.82	214.44	246.20	144.62	176.38	91.92	87.97
102	69.88	214.75	246.88	144.87	177.00	92.07	88.28
103	69.93	215.08	247.35	145.15	177.42	92.25	88.49
104	69.98	215.43	247.74	145.45	177.76	92.44	88.66
105	70.02	215.78	248.25	145.76	178.23	92.64	88.90
106	70.07	216.10	248.57	146.03	178.50	92.81	89.03
107	70.11	216.42	248.90	146.31	178.79	92.99	89.18
108	70.15	216.73	249.27	146.58	179.12	93.16	89.34
109	70.19	217.00	249.68	146.81	179.49	93.31	89.53
110	70.23	217.31	250.05	147.08	179.82	93.48	89.69
111	70.26	217.58	250.34	147.32	180.08	93.63	89.82
112	70.30	217.79	250.65	147.49	180.35	93.74	89.95
113	70.34	217.98	250.96	147.64	180.62	93.84	90.09
114	70.38	218.17	251.25	147.79	180.87	93.93	90.21
115	70.42	218.40	251.44	147.98	181.02	94.05	90.29
116	70.45	218.60	251.72	148.15	181.27	94.16	90.41



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Report No.: NTSQP[2021]C0713

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Day	Evolved CO <sub>2</sub> , g					Degree of biodegradation,%	
	Blank	Cellulose	2020E0527	Cellulose(actual)	2020E0527(actual)	Cellulose	2020E0527
117	70.48	218.81	251.94	148.33	181.46	94.27	90.51
118	70.52	219.03	252.16	148.51	181.64	94.39	90.60
119	70.56	219.24	252.42	148.68	181.86	94.50	90.71
120	70.59	219.41	252.68	148.82	182.09	94.58	90.82
121	70.63	219.53	252.91	148.90	182.28	94.64	90.92
122	70.66	219.63	253.12	148.97	182.46	94.68	91.01
123	70.69	219.70	253.32	149.01	182.63	94.71	91.09
124	70.74	219.75	253.56	149.01	182.82	94.71	91.19
125	70.78	219.79	253.78	149.01	183.00	94.71	91.28
126	70.81	219.82	253.99	149.01	183.18	94.71	91.37
127	70.84	219.87	254.18	149.03	183.34	94.72	91.45
128	70.87	219.90	254.43	149.03	183.56	94.72	91.56
129	70.91	219.94	254.65	149.03	183.74	94.72	91.65
130	70.96	219.96	254.84	149.00	183.88	94.70	91.72
131	71.00	219.99	255.10	148.99	184.10	94.69	91.83
132	71.03	220.02	255.38	148.99	184.35	94.69	91.95
133	71.06	220.07	255.54	149.01	184.48	94.71	92.01
134	71.09	220.09	255.80	149.00	184.71	94.70	92.13
135	71.12	220.12	256.06	149.00	184.94	94.70	92.24
136	71.16	220.14	256.25	148.98	185.09	94.69	92.32
137	71.19	220.20	256.38	149.01	185.19	94.71	92.37
138	71.22	220.24	256.50	149.02	185.28	94.71	92.41
139	71.26	220.31	256.62	149.05	185.36	94.73	92.45
140	71.30	220.34	256.69	149.04	185.39	94.72	92.47
141	71.34	220.39	256.74	149.05	185.40	94.73	92.47
142	71.37	220.41	256.79	149.04	185.42	94.72	92.48
143	71.40	220.44	256.82	149.04	185.42	94.72	92.48
144	71.44	220.46	256.86	149.02	185.42	94.71	92.48
145	71.49	220.51	256.91	149.02	185.42	94.71	92.48
146	71.52	220.56	256.97	149.04	185.45	94.72	92.50
147	71.55	220.59	257.07	149.04	185.52	94.72	92.53
148	71.59	220.63	257.15	149.04	185.56	94.72	92.55
149	71.64	220.68	257.20	149.04	185.56	94.72	92.55
150	71.68	220.73	257.24	149.05	185.56	94.73	92.55

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Day	Evolved CO <sub>2</sub> , g					Degree of biodegradation, %	
	Blank	Cellulose	2020E0527	Cellulose(actual)	2020E0527(actual)	Cellulose	2020E0527
151	71.71	220.77	257.28	149.06	185.57	94.74	92.56
152	71.74	220.80	257.34	149.06	185.60	94.74	92.57
153	71.77	220.84	257.40	149.07	185.63	94.74	92.59
154	71.80	220.87	257.46	149.07	185.66	94.74	92.60
155	71.84	220.92	257.50	149.08	185.66	94.75	92.60
156	71.87	220.94	257.54	149.07	185.67	94.74	92.61
157	71.90	221.00	257.59	149.10	185.69	94.76	92.62
158	71.93	221.03	257.64	149.10	185.71	94.76	92.63
159	71.98	221.07	257.69	149.09	185.71	94.76	92.63
160	72.02	221.11	257.73	149.09	185.71	94.76	92.63
161	72.06	221.15	257.77	149.09	185.71	94.76	92.63
162	72.10	221.18	257.81	149.08	185.71	94.75	92.63
163	72.13	221.22	257.85	149.09	185.72	94.76	92.63
164	72.16	221.26	257.89	149.10	185.73	94.76	92.64
165	72.19	221.30	257.94	149.11	185.75	94.77	92.65
166	72.23	221.34	258.00	149.11	185.77	94.77	92.66
167	72.26	221.38	258.05	149.12	185.79	94.78	92.67
168	72.30	221.42	258.10	149.12	185.80	94.78	92.67
169	72.34	221.45	258.14	149.11	185.80	94.77	92.67
170	72.38	221.47	258.20	149.09	185.82	94.76	92.68
171	72.41	221.51	258.27	149.10	185.86	94.76	92.70
172	72.44	221.58	258.32	149.14	185.88	94.79	92.71
173	72.47	221.61	258.35	149.14	185.88	94.79	92.71
174	72.50	221.67	258.40	149.17	185.90	94.81	92.72
175	72.54	221.71	258.45	149.17	185.91	94.81	92.73
176	72.57	221.75	258.48	149.18	185.91	94.81	92.73
177	72.61	221.78	258.53	149.17	185.92	94.81	92.73
178	72.67	221.82	258.57	149.15	185.90	94.79	92.72
179	72.71	221.86	258.61	149.15	185.90	94.79	92.72
180	72.74	221.90	258.65	149.16	185.91	94.80	92.73



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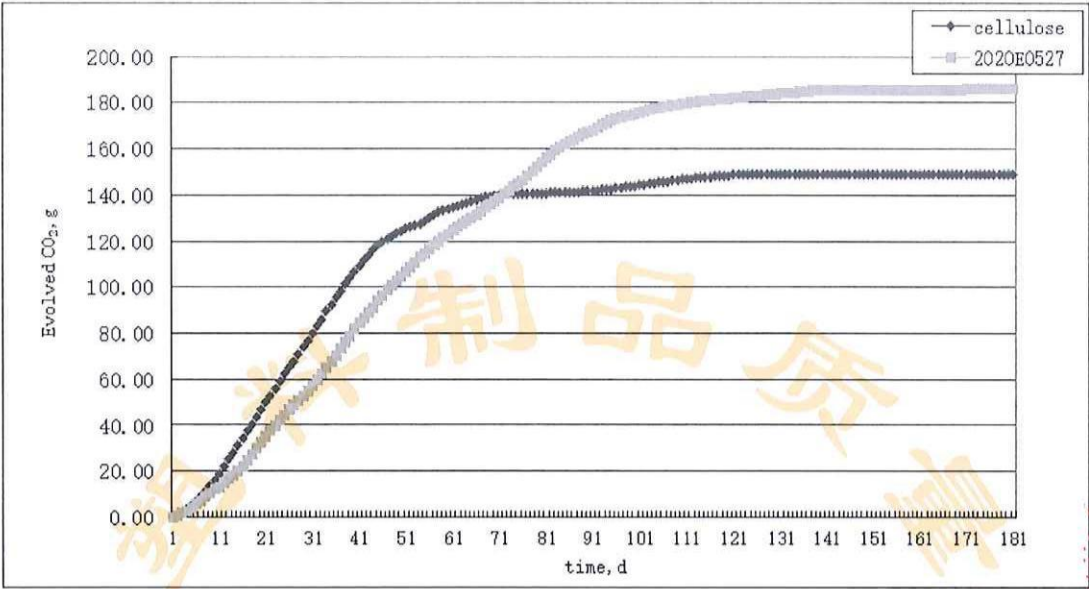


Fig.1 Curve of Evolved CO<sub>2</sub>

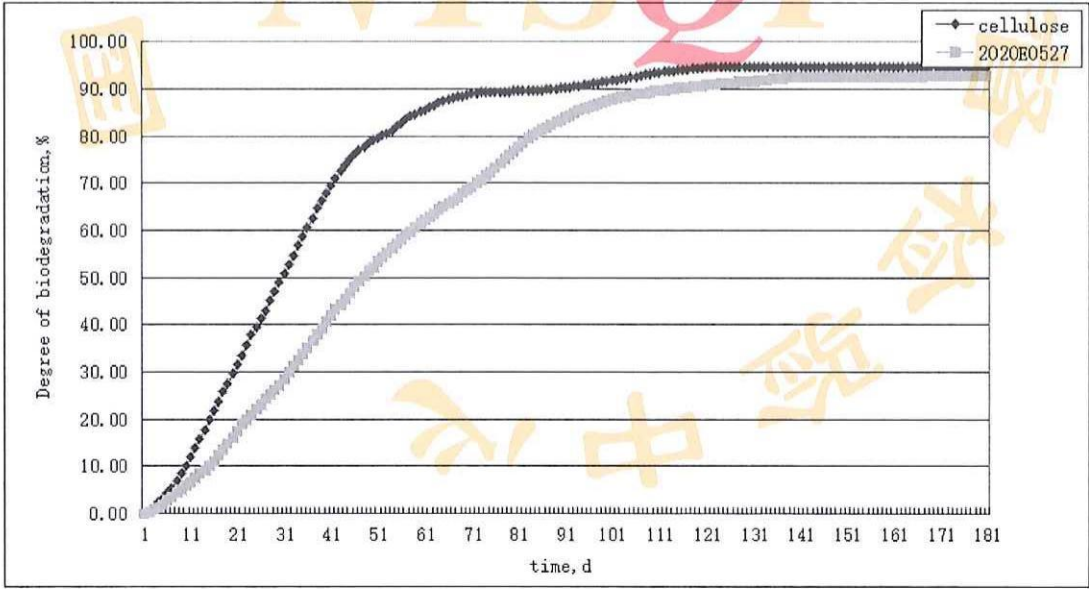


Fig.2 Curve of Degree of Biodegradation

—End—



# Biobased Carbon Content Test Report

Organization: TUV

Date: April 22, 2024

No.: 0-3-27-BAW-24

**Test Report No.:** 0-3-27-BAW-24

Page 1 of 4

**Client:** DIN CERTCO

**Order no.:** 3394227

**Customer information:** Jimei Italy Srl

**Test sample(s):** BIOBASE CELLULOSA ACETATE,  
ESSN Material

**Procedure number:** 3394227

**Sample receiving date:** 2024-04-22

**Condition of the test item at delivery:** Undamaged

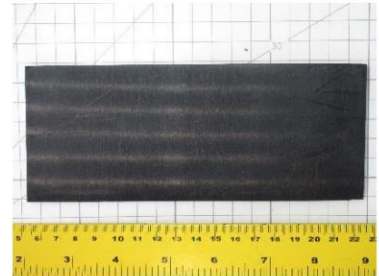
**Testing period:** 2024-04-26 to 2024-05-07

**Test basis:**

ASTM D 6866:2022 and the certification scheme „Biobased Products“ (2020-05)

**Test specification:**

1. Dry mass and volatile solids content
2. Biobased carbon proportion of total carbon

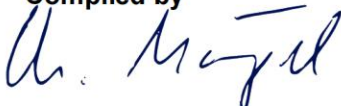


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**Berlin, 2024-05-30**

**Compiled by**



Charlotte Mämpel, M. Sc.

- Test Engineer -



**Reviewed by**



Kristina Block, M. Sc.

- Test Engineer -

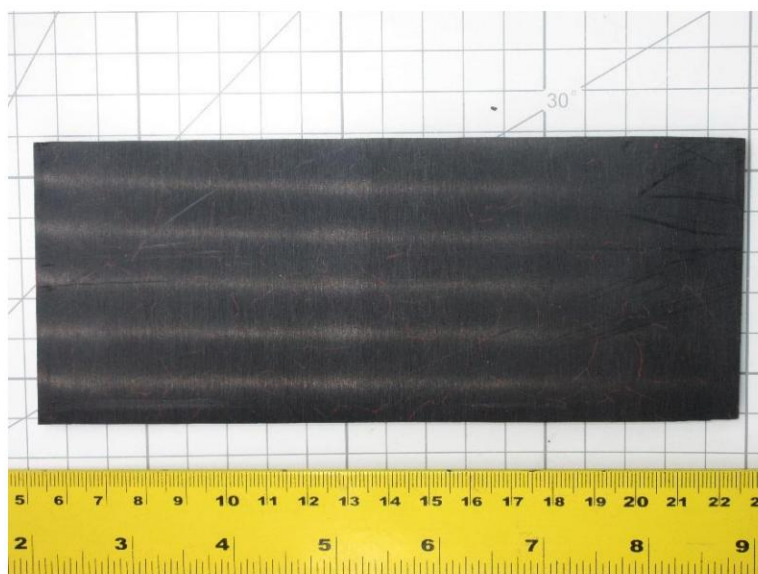
This test report relates to the mentioned test samples. Without the permission of the BAW Testing Laboratory TÜV Rheinland this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any certification mark.

Test Report No.:

0-3-27-BAW-24

Page 2 of 4

**Picture and detailed description of the test sample(s)**



M001

**Material list**

Material no.	Material	Colour	Remark
M001	BIOBASE CELLULOSA ACETATE, ESSN Material	black	sample for volatile solids, biobased carbon proportion of total carbon





Test Report No.:

0-3-27-BAW-24

Page 3 of 4

**1. Dry mass and volatile solids content****Test method**

Dry mass refer to EN 15934:2012

Volatile solids refer to EN 15935:2012

**Test result\***

Test no.	Material no.	Dry mass	Volatile solids	Requirement volatile solids**
T001	M001	97,42 %	99,96 %	> 50 %

**Abbreviation**

% Percentage

**Remark**

\* This test has been carried out at the Fraunhofer-Institut für Umwelt-, Sicherheits- und Energietechnik UMSICHT, Osterfelder Straße 3, 46047 Oberhausen, Germany.

\*\* The requirement is following certification scheme "Biobased products" (2020-05).

**Test Report No.:** 0-3-27-BAW-24

Page 4 of 4

**2. Biobased carbon proportion of total carbon****Test method**

Refer to ASTM D 6866-2022 Method B (AMS)

**Test result\***

Test no.	Material no.	Biobased carbon proportion of total carbon	Uncertainty	Requirement**
T001	M001	61 %	0,2 %	≥ 20 %

**Abbreviation**

% Percentage. The results state the percentage of modern carbon.

**Remarks**

\* This test has been carried out at Beta Analytic Inc., 4987 SW 74th Court, Miami, FL 33155 USA.

\*\* The requirement is following the certification scheme "Biobased Products" (2020-05).

**-End-**

# Bisphenol-A Test Report

Organization: SGS

Date: Dec 20, 2024

Validity: 1 Year

No.CANEC24027804611



## Test Report

No.: CANEC24027804611

Date: Dec 20, 2024

Page 1 of 4

Client Name: SHENZHEN JIMEI NEW MATERIAL CO.,LTD

Client Address: NO. 8-16, JINYUAN ROAD, HENGGANG TOWN, SHENZHEN, GUANGDONG, CHINA

Sample Name: ECO - Cellulose Acetate Sheet

The above sample(s) and information were provided by the client.

SGS Job No.: SZP24-053736

Sample Receiving Date: Dec 10, 2024

Testing Period: Dec 10, 2024 ~ Dec 16, 2024

Test Requested: Select test(s) as requested by the client.

Test Method(s): Please refer to next page(s).

Test Result(s): Please refer to next page(s).

Test Requirement	Conclusion
Bisphenol A	See Results

Signed for and on behalf of  
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

**Arsene Ye**

Arsene Ye  
Approved Signatory

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## Test Report

No.: CANEC24027804611

Date: Dec 20, 2024

Page 2 of 4

### Test Result(s):

#### Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A2	CAN24-0278046-0001.C002	Multicolor board

#### Remarks:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

### Bisphenol A

**Test Method:** SGS In-house method (GZTC CHEM-TOP-075-02, With reference to EPA 3550C:2007 & EPA 8321B:2007), analysis was performed by LC-MS.

Test Item(s)	CAS No.	Unit(s)	MDL	A2
Bisphenol A(BPA)	80-05-7	mg/kg	1.0	ND

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule ( $w=0$ ) stated in ILAC-G8:09/2019.



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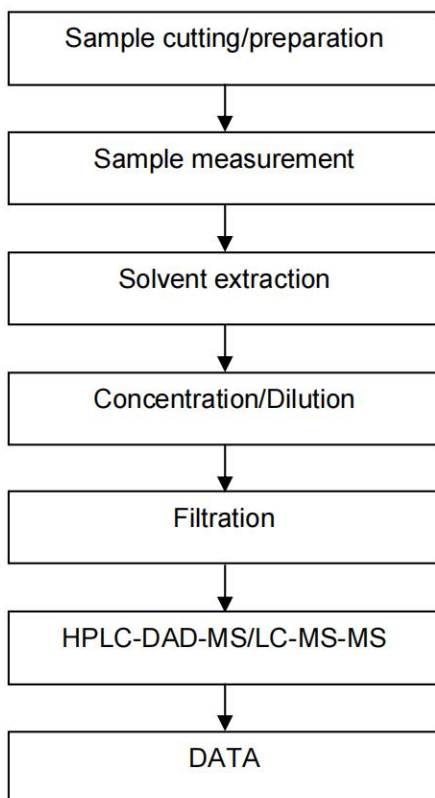
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## Bisphenols Testing Flow Chart



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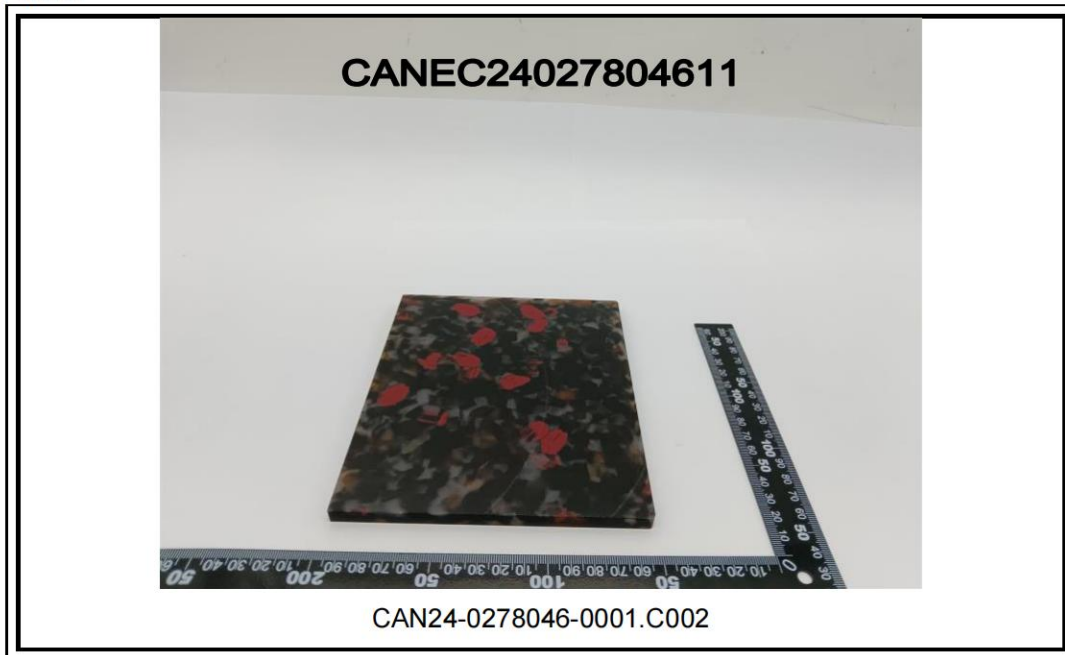
## Test Report

No.: CANEC24027804611

Date: Dec 20, 2024

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Sample Photo:



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# Annex of EU REACH-Benzene

Organization: SGS

Date: 09 Jan 2023

No.CANEC2228006503

## Test Report

No. CANEC2228006503

Date: 09 Jan 2023

Page 1 of 3

Client Name : SHENZHEN JIMEI NEW MATERIAL CO.,LTD

Client Address : NO.8-16 JIN YUAN ROAD,HENG GANG TOWN,SHENZHEN,GUANGDONG,CHINA

Sample Name : ECO-Cellulose Acetate Material

The above sample(s) and information were provided by the client.

SGS Job No. : CP22-068916 - SZ

Date of Sample Received : 29 Dec 2022

Testing Period : 29 Dec 2022 - 06 Jan 2023

Test Requested : Selected test(s) as requested by the client.

Test Method(s) : Please refer to next page(s).

Test Result(s) : Please refer to next page(s).

Result Summary :

Test Requested	Conclusion
Entry 5 of Regulation (EU) 2015/1494 amending Annex XVII of REACH Regulation (EC) No 1907/2006-Benzene	PASS

Signed for and on behalf of  
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

*Coral Qiu*

Coral Qiu

Approved Signatory

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## Test Report

No. CANEC2228006503

Date: 09 Jan 2023

Page 2 of 3

Test Result(s) :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN22-280065.002	Translucent plastic sheet

Remarks :

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected ( < MDL )
- (4) "-" = Not Regulated

### Entry 5 of Regulation (EU) 2015/1494 amending Annex XVII of REACH Regulation (EC) No 1907/2006-Benzene

Test Method : With reference to SGS in-house method (GZTC CHEM-TOP-050-14), analysis was performed by GC-MS.

Test Item(s)	CAS NO.	Limit	Unit	MDL	002
Benzene	71-43-2	1000	mg/kg	5	ND

Comment

**PASS**

Notes :

Benzene Reference Information: Entry 5 of Regulation (EU) 2015/1494 amending Annex XVII of REACH Regulation (EC) No 1907/2006:

(i) Shall not be used in toys or parts of toys where the concentration of benzene in the free state is greater than 5 mg/kg (0.0005 %) of the weight of the toy or part of toy.

(ii) Shall not be placed on the market, or used,

— as a substance,

— as a constituent of other substances, or in mixtures, in concentrations equal to, or greater than 0.1 % by weight.

Please refer to Regulation (EU) 2015/1494 to get more detail information.

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (  $w=0$  ) stated in ILAC-G8:09/2019.



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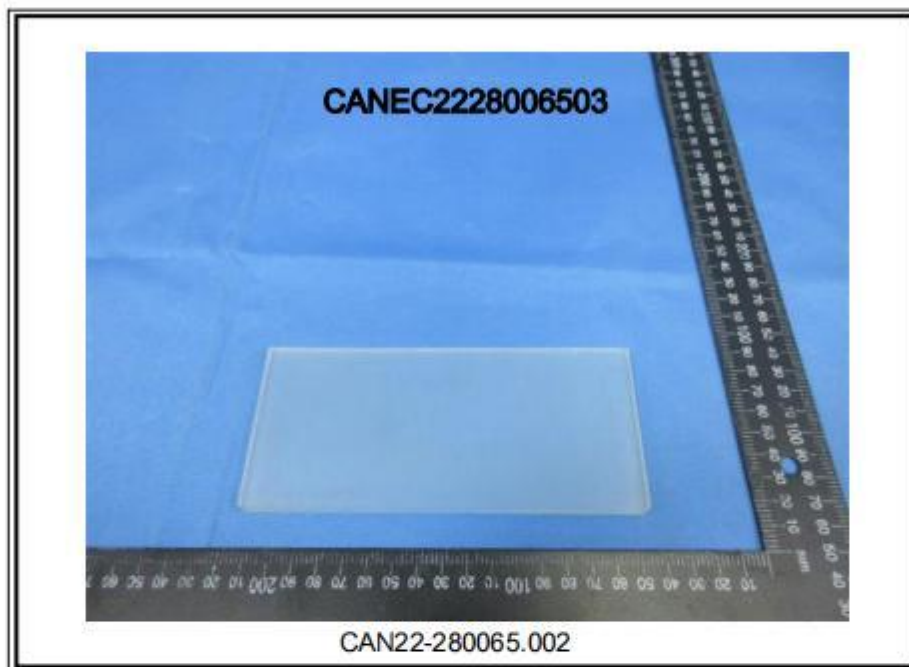
## Test Report

No. CANEC2228006503

Date: 09 Jan 2023

Page 3 of 3

Sample photo:



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# Phthalate(s) 45 Test Report

Organization: SGS

Date: Jan 17, 2025

Validity: 1 Year

No.CANEC25000437601



## Test Report

No.: CANEC25000437601

Date: Jan 17, 2025

Page 1 of 5

Client Name: SHENZHEN JIMEI NEW MATERIAL CO.,LTD

Client Address: NO. 8-16, JINYUAN ROAD, HENGGANG TOWN, SHENZHEN, GUANGDONG, CHINA

Sample Name: ECO - Cellulose Acetate Sheet

The above sample(s) and information were provided by the client.

SGS Job No.: SZP25-000779

Sample Receiving Date: Jan 07, 2025

Testing Period: Jan 07, 2025 ~ Jan 13, 2025

Test Requested: Select test(s) as requested by the client.

Test Method(s): Please refer to next page(s).

Test Result(s): Please refer to next page(s).

Test Requirement	Conclusion
Phthalates	See Results

Signed for and on behalf of  
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

**Arsene Ye**

Arsene Ye  
Approved Signatory

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## Test Report

No.: CANEC25000437601

Date: Jan 17, 2025

Page 2 of 5

### Test Result(s):

#### Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	CAN25-0004376-0001.C001	Multicolor board

#### Remarks:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

### Phthalates

**Test Method:** With reference to IEC 62321-8:2017, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Unit(s)	MDL	A1
Dibutyl Phthalate(DBP)	84-74-2	mg/kg	50	ND
Bis-(2-ethylhexyl) Phthalate(DEHP)	117-81-7	mg/kg	50	ND
Benzyl Butyl Phthalate(BBP)	85-68-7	mg/kg	50	ND
Diisononyl Phthalate (DINP)	28553-12-0 /68515-48-0	mg/kg	50	ND
Di-n-Octyl Phthalate(DNOP)	117-84-0	mg/kg	50	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 /68515-49-1	mg/kg	50	ND
Diisobutyl Phthalate(DIBP)	84-69-5	mg/kg	50	ND
Bis(2-methoxyethyl)phthalate(DMEP)	117-82-8	mg/kg	50	ND
Di-n-Hexyl Phthalate(DnHP)	84-75-3	mg/kg	50	ND
Dipentyl Phthalate (DPENP/DnPP)	131-18-0	mg/kg	50	ND
Diphenyl Phthalate(DPhP)	84-62-8	mg/kg	50	ND
Diundecyl Phthalate(DUDP)	3648-20-2	mg/kg	50	ND
Dimethyl Phthalate(DMP)	131-11-3	mg/kg	50	ND
Diethyl Phthalate(DEP)	84-66-2	mg/kg	50	379
Dipropyl Phthalate(DPrP)	131-16-8	mg/kg	50	ND
Dicyclohexyl Phthalate(DCHP)	84-61-7	mg/kg	50	ND
Dibenzyl Phthalate(DBzP)	523-31-9	mg/kg	50	ND
Dinonyl Phthalate(DNP)	84-76-4	mg/kg	50	ND
Diisooctyl Phthalate(DIOP)	27554-26-3	mg/kg	50	ND
Diallyl Phthalate(DAP)	131-17-9	mg/kg	50	ND
n-Decyl-n-Octyl Phthalate(nDnOP)	119-07-3	mg/kg	50	ND
Di-n-Decyl Phthalate(DnDP)	84-77-5	mg/kg	50	ND
Diisopentyl Phthalate(DIPP)	605-50-5	mg/kg	50	ND
n-pentyl Isopentyl Phthalate(nPIPP)	776297-69-9	mg/kg	50	ND
Bis(2-n-butoxyethyl)Phthalate(DBEP)	117-83-9	mg/kg	50	ND
Bis(4-methyl-2-pentyl)Phthalate(BMPP)	146-50-9	mg/kg	50	ND
Bis(2-ethoxyethyl)Phthalate(DEEP)	605-54-9	mg/kg	50	ND
1,2-Benzenedicarboxylic Acid,di-C6-8-branched alkyl esters,C7-rich(DIHP)	71888-89-6	mg/kg	50	ND
Di-n-Heptyl Phthalate(DnHpP)	3648-21-3	mg/kg	50	ND



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## Test Report

No.: CANEC25000437601

Date: Jan 17, 2025

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Test Item(s)	CAS No.	Unit(s)	MDL	A1
1,2-Benzenedicarboxylic Acid,Di-C7-11- Branched and Linear Alkyl Esters(DHNUP)	68515-42-4	mg/kg	50	ND
1,2-Benzenedicarboxylic Acid,Dipentyl Ester,Branched and Linear (DPP)	84777-06-0	mg/kg	50	ND
Ditridecyl Phthalate(DTDP)	119-06-2	mg/kg	50	ND
1,2-benzenedicarboxylic Acid,dihexyl ester branched and linear(DHxP)	68515-50-4	mg/kg	50	ND
1,2-Benzenedicarboxylic Acid,di-C6-10- Alkyl Esters1,2-Benzenedicarboxylic Acid,Mixed Decyl and Hexyl and Octyl Diesters with ≥ 0.3% of Dihexyl Phthalate	68515-51-5 /68648-93-1	mg/kg	100	ND
Di-(2-Ethylhexyl)Adipate(DEHA)	103-23-1	mg/kg	50	ND
Dioctyl Terephthalate(DOTP)	6422-86-2	mg/kg	50	ND
Diisononyl Adipate(DINA)	33703-08-1	mg/kg	50	ND
Di-iso-hexylphalate (DIHxP)	71850-09-4	mg/kg	50	ND
Di(2-propylheptyl)Phthalate(DPHpP)	53306-54-0	mg/kg	50	ND
Bis(2-ethylhexyl)-2,3,4,5- tetrabromophthalate(TBPH)	26040-51-7	mg/kg	50	ND
Acetyl Tributyl Citrate(ATBC)	77-90-7	mg/kg	50	ND
Trioctyl trimellitate(TOTM)	3319-31-1	mg/kg	50	ND
Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride (MHHPA)	-	mg/kg	50	ND
Phthalic anhydride (PA)	85-44-9	mg/kg	50	ND
1,2-Cyclohexane Dicarboxylic Acid,di- isononyl ester(DINCH)	166412-78-8	mg/kg	50	ND

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule ( $w=0$ ) stated in ILAC-G8:09/2019.



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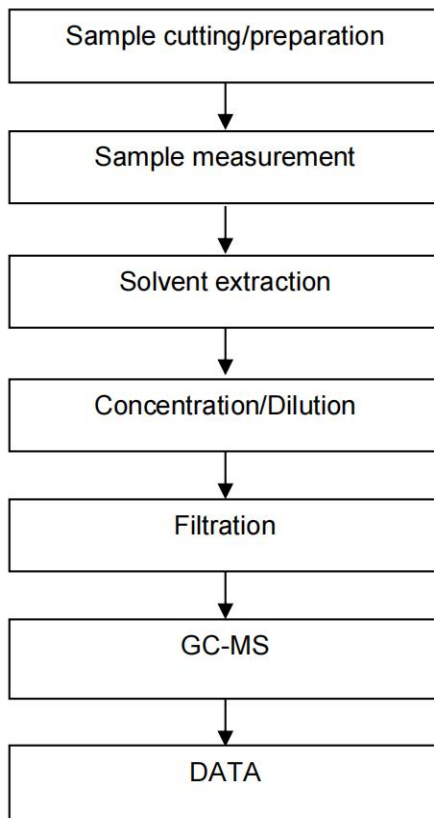
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Date: Jan 17, 2025

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### Phthalates Testing Flow Chart



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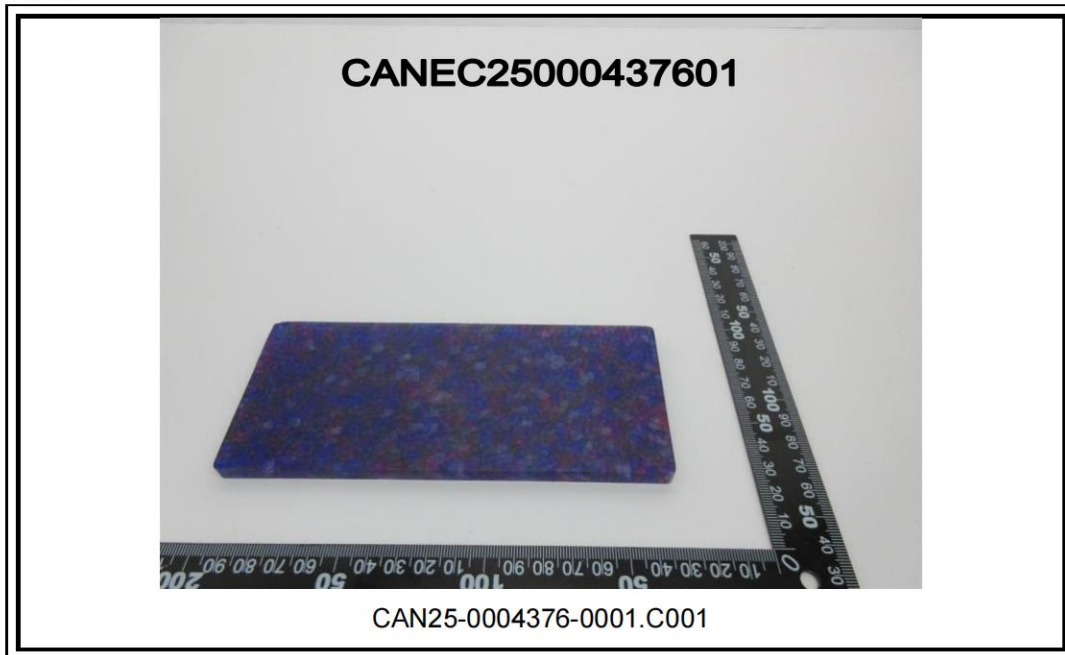
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Sample Photo:



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Member of the SGS Group (SGS SA)

# PAHs Test Report

Organization: SGS

Date: Apr 30 ,2025

Validity: 1 Year

No.SZXEC25001419501



## Test Report

No.: SZXEC25001419501

Date: Apr 30, 2025

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Client Name: SHENZHEN JIMEI NEW MATERIAL CO.,LTD

Client Address: NO. 8-16, JINYUAN ROAD, HENGGANG TOWN, SHENZHEN, GUANGDONG, CHINA

Sample Name: ECO-Cellulose Acetate Sheet

The above sample(s) and information were provided by the client.

SGS Job No.: SZP25-019750

Sample Receiving Date: Apr 25, 2025

Testing Period: Apr 25, 2025 ~ Apr 30, 2025

Test Requested: Select test(s) as requested by the client.

Test Method(s): Please refer to next page(s).

Test Result(s): Please refer to next page(s).

Test Requirement	Conclusion
AfPS GS 2019:01 PAK-Polycyclic Aromatic Hydrocarbons (PAHs)	Pass

Signed for and on behalf of  
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Tina

Tina Fan  
Approved Signatory

Scan to see the report



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SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch

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## Test Report

No.: SZXEC25001419501

Date: Apr 30, 2025

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### Test Result(s):

#### Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	SZX25-0014195-0001.C001	Brown/colorless transparent board

#### Remarks:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

### AfPS GS 2019:01 PAK-Polycyclic Aromatic Hydrocarbons (PAHs)

**Test Method:** With reference to AfPS GS 2019:01 PAK, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A1
Benzo(a)pyrene (BaP)	50-32-8	0.2	mg/kg	0.1	ND
Benzo(e)pyrene (BeP)	192-97-2	0.2	mg/kg	0.1	ND
Benzo(a)anthracene (BaA)	56-55-3	0.2	mg/kg	0.1	ND
Benzo(b)fluoranthene (BbF)	205-99-2	0.2	mg/kg	0.1	ND
Benzo(j)fluoranthene (BjF)	205-82-3	0.2	mg/kg	0.1	ND
Benzo(k)fluoranthene (BkF)	207-08-9	0.2	mg/kg	0.1	ND
Chrysene (CHR)	218-01-9	0.2	mg/kg	0.1	ND
Dibenzo(a,h)anthracene (DBA)	53-70-3	0.2	mg/kg	0.1	ND
Benzo(g,h,i)perylene (BPE)	191-24-2	0.2	mg/kg	0.1	ND
Indeno(1,2,3-c,d)pyrene (IPY)	193-39-5	0.2	mg/kg	0.1	ND
Phenanthrene (PHE)	85-01-8	-	mg/kg	0.1	ND
Pyrene (PYR)	129-00-0	-	mg/kg	0.1	ND
Anthracene (ANT)	120-12-7	-	mg/kg	0.1	ND
Fluoranthene (FLT)	206-44-0	-	mg/kg	0.1	ND
Sum of Phenanthrene(PHE), Pyrene(PYR), Anthracene(ANT), Fluoranthene(FLT)	-	1	mg/kg	-	ND
Naphthalene (NAP)	91-20-3	1	mg/kg	0.1	ND
Sum of 15 PAHs	-	1	mg/kg	-	ND
Material Category	-	-	-	-	1
<b>Conclusion</b>					<b>Pass</b>

#### Notes:

As per client information, the tested sample is toy's product which is under the directive of 2009/48/EC and materials in articles for use by children up to three years of age.

### AfPS (German commission for Product Safety) : PAHs requirements

Parameter	Category 1	Category 2	Category 3
-----------	------------	------------	------------



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	Materials intended to be placed in the mouth, or materials coming into long-term contact with skin (more than 30s) during the intended use -in toys according to Directive 2009/48/EC or -for the use by children <sup>a,b</sup> up to 3 years of age.	Materials not covered by category 1, coming into long-term contact (more than 30s) or short-term repetitive contact <sup>c</sup> with skin during the intended or foreseeable use <sup>d</sup> .		Materials covered neither by category 1 nor by category 2, coming into short-term contact (up to 30s) with skin during the intended or foreseeable use.	
		a. use by children	b. other consumer products	a. use by children	b. other consumer products
Benzo(a)pyrene (BaP) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(e)pyrene (BeP) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(a)anthracene (BaA) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(b)fluoranthene (BbF) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(j)fluoranthene (BjF) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(k)fluoranthene (BkF) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Chrysene (CHR) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Dibenzo(a,h)anthracene (DBA) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(g,h,i)perylene (BPE) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Indeno(1,2,3-cd)pyrene (IPY) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Phenanthrene (PHE), pyrene (PYR), anthracene (ANT), fluoranthene (FLT), mg/kg	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum



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## Test Report

No.: SZXEC25001419501

Date: Apr 30, 2025

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Naphthalene (NAP) mg/kg	< 1	< 2		< 10	
Sum of 15 PAHs	<1	< 5	< 10	< 20	< 50

### Notes:

<sup>a</sup> A "Child" is legally defined as a person before reaching the age of 14 years.

<sup>b</sup> Use by children includes both active and passive contact by children.

<sup>c</sup> Definition "short-term repetitive contact" taken from REACH Annex XVII entry 50 amendment (Regulation (EC) No.1272/2013)

<sup>d</sup> According to the definition of the German Product Safety Act (ProdSG) (chapter 1 Article 2 No. 28)

"foreseeable use" shall mean the use of a product in a manner that the person placing it on the market, has not intended, but which could be reasonably foreseeable.

### Remark:

The German committee on Product Safety (AfPS) published a new PAHs document (AfPS GS 2019:01 PAK) on April 10, 2020, which will be binding for the issue of GS mark certificate from July 1, 2020.

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule ( $w=0$ ) stated in ILAC-G8:09/2019.



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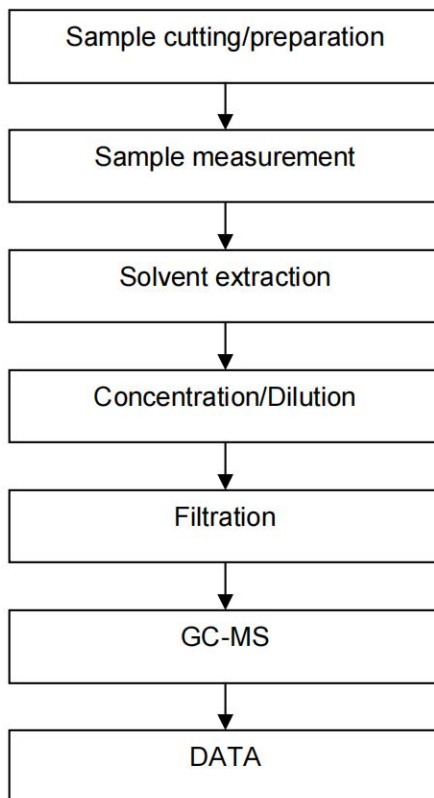
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### PAHs Testing Flow Chart



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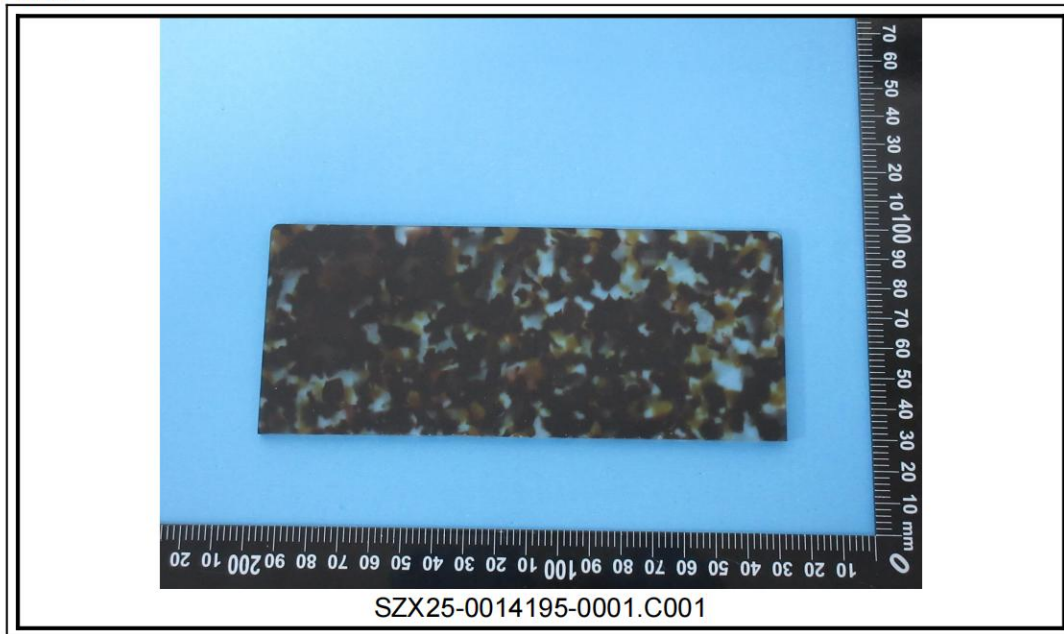
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No.: SZXEC25001419501

Date: Apr 30, 2025

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# Migration of Certain Elements Test Report

Organization: SGS

Date: 17 May 2022

No.SZXEC2201431501

## Test Report

No. SZXEC2201431501

Date: 17 May 2022

Page 1 of 4

Client Name : SHENZHEN JIMEI NEW MATERIAL CO.,LTD.

Client Address : NO.8-16 JIN YUAN ROAD HENGGANG TOWN, SHENZHEN, GUANGDONG, CHINA

Sample Name : ECO-Cellulose Acetate Materia

The above sample(s) and information were provided by the client.

SGS Job No. : RP22-010877 - SZ  
 Date of Sample Received : 11 May 2022  
 Testing Period : 11 May 2022 - 17 May 2022  
 Test Requested : Selected test(s) as requested by the client.  
 Test Method(s) : Please refer to next page(s).  
 Test Result(s) : Please refer to next page(s).

### Result Summary :

Test Requested	Conclusion
EN 71-3:2019+A1:2021 - Migration of Certain Elements (Category III: Scrapped-off toy material)	PASS

Signed for and on behalf of  
 SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

*Ford*

Ford Shi  
 Approved Signatory

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## Test Report

No. SZXEC2201431501

Date: 17 May 2022

Page 2 of 4

Test Result(s) :

### Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	SZX22-014315.001	Red transparent material

Remarks :

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected ( < MDL )
- (4) "-" = Not Regulated

### EN 71-3:2019+A1:2021 - Migration of Certain Elements (Category III: Scrapped-off toy material)

Test Method : With reference to EN 71-3:2019+A1:2021, analysis was performed by ICP-MS. Chromium (VI) was analyzed by IC-UV/LC-ICP-MS.

Test Item(s)	Limit	Unit	MDL	001
Soluble Aluminum (Al)	28130	mg/kg	50	ND
Soluble Antimony (Sb)	560	mg/kg	10	ND
Soluble Arsenic (As)	47	mg/kg	10	ND
Soluble Barium (Ba)	18750	mg/kg	50	ND
Soluble Boron (B)	15000	mg/kg	50	ND
Soluble Cadmium (Cd)	17	mg/kg	5	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	1	ND
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.010	ND
Soluble Cobalt (Co)	130	mg/kg	10	ND
Soluble Copper (Cu)	7700	mg/kg	50	ND
Soluble Lead (Pb)	23	mg/kg	2.3	ND
Soluble Manganese (Mn)	15000	mg/kg	50	ND
Soluble Mercury (Hg)	94	mg/kg	10	ND
Soluble Nickel (Ni)	930	mg/kg	10	ND
Soluble Selenium (Se)	460	mg/kg	10	ND
Soluble Strontium (Sr)	56000	mg/kg	50	ND
Soluble Tin (Sn)	180000.0	mg/kg	3.0	ND
Soluble Organic Tin	12	mg/kg	-	ND
Soluble Zinc (Zn)	46000	mg/kg	50	ND

Comment

PASS

Notes :

1. According to Chapter of 10.1.2 of EN 71-3:2019+A1:2021, Chromium (III) is calculated by the



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## Test Report

No. SZXEC2201431501

Date: 17 May 2022

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following formula:

Soluble Chromium (III) = Soluble Total Chromium – Soluble Chromium (VI)

2. Confirmation test of soluble organic tin is not required in case of soluble tin, after conversion, does not exceed the soluble organic tin requirement as specified in EN 71-3:2019+A1:2021.

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule ( $w=0$ ) stated in ILAC-G8:09/2019.



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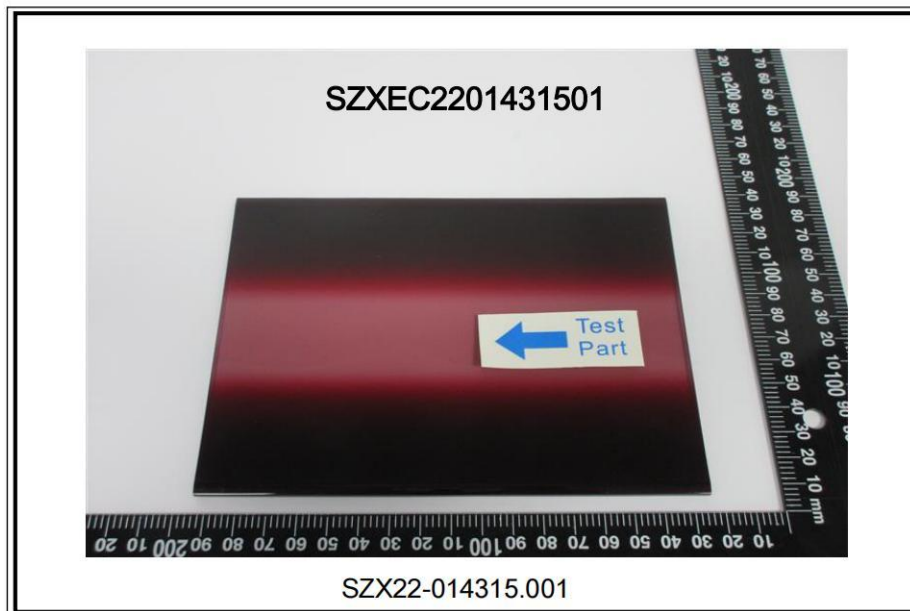
## Test Report

No. SZXEC2201431501

Date: 17 May 2022

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Sample photo:



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# Halogen Test Report

Organization: SGS

Date: Dec 20, 2024

Validity: 1 Year

No.CANE24027804615



## Test Report

No.: CANEC24027804615

Date: Dec 20, 2024

Page 1 of 4

Client Name: SHENZHEN JIMEI NEW MATERIAL CO.,LTD

Client Address: NO. 8-16, JINYUAN ROAD, HENGGANG TOWN, SHENZHEN, GUANGDONG, CHINA

Sample Name: ECO - Cellulose Acetate Sheet

The above sample(s) and information were provided by the client.

SGS Job No.: SZP24-053736

Sample Receiving Date: Dec 10, 2024

Testing Period: Dec 10, 2024 ~ Dec 16, 2024

Test Requested: Select test(s) as requested by the client.

Test Method(s): Please refer to next page(s).

Test Result(s): Please refer to next page(s).

Test Requirement	Conclusion
Halogen	See Results

Signed for and on behalf of  
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

**Arsene Ye**

Arsene Ye  
Approved Signatory

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## Test Report

No.: CANEC24027804615

Date: Dec 20, 2024

Page 2 of 4

### Test Result(s):

#### Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A2	CAN24-0278046-0001.C002	Multicolor board

#### Remarks:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

### Halogen

**Test Method:** With reference to EN 14582:2016, analysis was performed by IC.

Test Item(s)	Unit(s)	MDL	A2
Fluorine(F)	mg/kg	20	ND
Chlorine(Cl)	mg/kg	50	65
Bromine(Br)	mg/kg	50	ND
Iodine(I)	mg/kg	50	ND

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule ( $w=0$ ) stated in ILAC-G8:09/2019.



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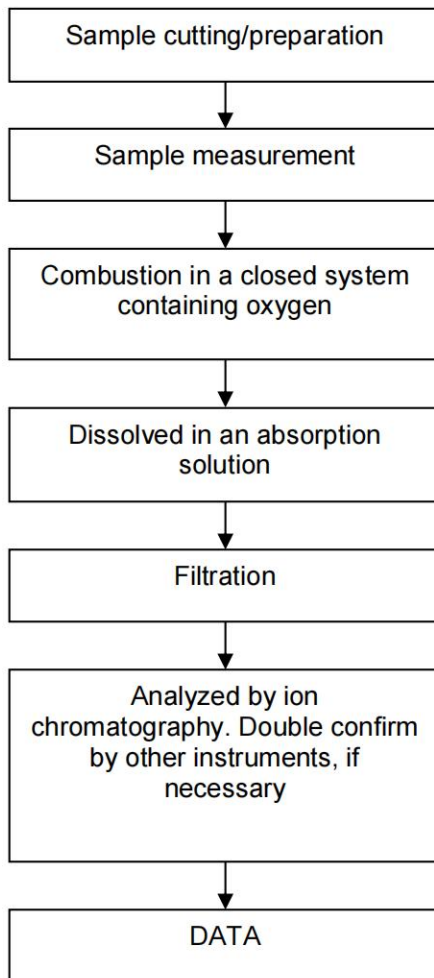
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### Halogen Testing Flow Chart



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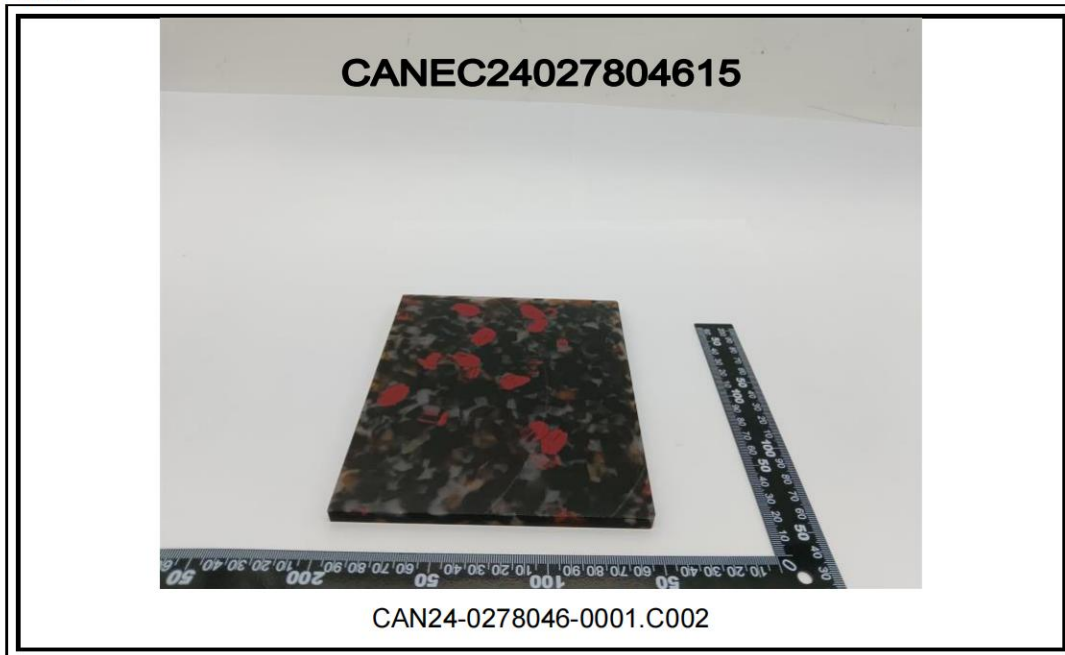
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Date: Dec 20, 2024

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Sample Photo:



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# ESSN-ECO Acetate

## Product Technical Data



## ESSN-ECO Acetate Product Technical Data (2023)

Product Category: ESSN-ECO Acetate

Standard Thickness: 4.0/6.0mm

Standard Size for Extrusion: 170X700mm

Standard Size for Block: 170X700mm

Application: This product is an ECO-friendly cellulose acetate sheet, which is composed of a variety of semi-finished products in different colors. It is widely used in eyeglasses industry, combs, hair accessories, jewelry, etc.

### Features:

1	Appearance	A long, strip-shaped solid with smooth appearance
2	Melting Point	190-230℃
3	Density	1.25 - 1.32g/cm <sup>3</sup> (water=1)
4	Solubility	Insoluble (water), soluble in acetone, DMSO, and chlorinated chloride solutions
5	Melt Index	15-18(g/10min)

### Performance Tests:

Item	U.M.	Value	Test Method
Hardness	HD	74-82	GB/T 531.1-2008
Shrinkage Test	%	<3	/
QUV Test	/	Grey card grade 3 or above qualified	GB/T 16422.3-2014
Tensile Strength	Mpa	35-50	GB/T 1040.2-2006
Elongation at Break	%	38±3	GB/T1042.2-2006 ISO 527-2:1993
Impact	KJ/m <sup>2</sup>	20-33	GB/T 1843-2008
Elasticity of Bending	Mpa	1300~1900	GB/T 9341-2008 ISO 178:2001

### Storage and Transportation:

1. Recommend the storage period should not exceed 2 years in the case of room temperature ventilation.

No special requirements for transportation, only need to protect the surface of the product to prevent scratching.

2. For more safety and environmental protection information, please refer to the MSDS or test report of our products.







Shenzhen Jimei New Material Co., Ltd

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[www.jimei123.com](http://www.jimei123.com)

[info@jimei123.com](mailto:info@jimei123.com)

+86-0755-28692111

No.8-16 JinYuan Road, He' Ao LongGang District, Shenzhen 518115