

# Test Report

No. CANEC2200861001

Date: 30 Jan 2022

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SHENZHEN ESUN INDUSTRIAL CO., LTD .

WUHAN UNIVERSITY BUILDING A403-I AND A901, NO.6 YUEXING 2 ROAD, NANSHAN DISTRICT,  
SHENZHEN, CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : polylactic acid coated paper

SGS Job No. : 10004898 - CQ  
Model No. : polylactic acid coated paper  
Material : polylactic acid  
Date of Sample Received : 13 Jan 2022  
Testing Period : 13 Jan 2022 - 30 Jan 2022  
Test Requested : Selected test(s) as requested by client.  
Test Method : Please refer to next page(s).  
Test Results : Please refer to next page(s).

## Result Summary :

Test Requested	Conclusion
Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, Paper and board used in food contact materials and articles, EDQM- Fastness of fluorescent whitened paper and board	PASS
Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, Paper and board used in food contact materials and articles, EDQM – Overall migration	PASS
Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, Paper and board used in food contact materials and articles, EDQM –Preserving effect	PASS
Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, Paper and board used in food contact materials and articles, EDQM-Specific migration of primary aromatic amine (total)	PASS
Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, Paper and board used in food contact materials and articles, EDQM-Specific migration of Lead	PASS



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Guangzhou Branch Testing Center Chemical Laboratory.

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

Kim Cai

Kim Cai  
Approved Signatory



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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description	Material (claimed by the client)
SN1	CAN22-008610.001	White paper w/ transparent plastic film	Paper+PLA

### Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, Paper and board used in food contact materials and articles, EDQM- Fastness of fluorescent whitened paper and board

Test Method : With reference to EN 648:2018, analysis was performed by UV lamp.

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible Limit</u>	<u>Result of 001</u>	<u>Comment</u>
Distilled water	30min(s)	90±3°C	★	Grade 5	PASS
Rectified Olive Oil	30min(s)	120±3°C	★	Grade 5	PASS

Notes :

1. ★=Grade 5.
2. Grey Scale Rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good.

### Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, Paper and board used in food contact materials and articles, EDQM – Overall migration

Test Method : With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN 1186 1:2002 for selection of test methods;  
EN 1186 13: 2002 Method B adsorption by modified polyphenylene oxide.

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible Limit</u>	<u>Result of 001 Overall Migration</u>	<u>Comment</u>
Poly(2,6 diphenyl p phenylene oxide)(MPPO)	1.0hr(s)	100°C	10mg/dm <sup>2</sup>	3.7mg/dm <sup>2</sup>	PASS

Notes :

1. Test condition & simulant were specified by client.
2. The test was subcontracted to SGS Shanghai chemical lab.
3. Report the first migration result.

### Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, Paper and board used in food contact materials and articles, EDQM –Preserving effect



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Test Method : With reference to EN 1104:2018.

<u>Test Item(s)</u>	<u>Limit</u>	<u>001</u>
Aspergillus niger ATCC 6275	★	Absent
Bacillus subtilis ATCC 6633	★	Absent
<b>Comment</b>		<b>PASS</b>

Notes :

- 1.★= Absence of zone inhibition
- 2.Absent denotes absence of Antimicrobial constituents.  
Present denotes presence of Antimicrobial constituents .

### Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, Paper and board used in food contact materials and articles, EDQM-Specific migration of primary aromatic amine (total)

Test Method : With reference to EN 13130-1:2004 ,analysis was performed by UV-Vis.

#### Sample 001

Simulant Used : 3% Acetic Acid (W/V) Aqueous Solution

Test Condition : 70 °C 2.0 hr(s)

<u>Test Item(s)</u>	<u>Max. Permissible Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
Migration times	-	-	-	1st
Area/Volume	-	dm <sup>2</sup> /kg	-	6.0
Specific migration of primary aromatic amine	0.01	mg/kg	0.002	ND
<b>Comment</b>				<b>PASS</b>

Notes :

1. mg/kg = milligram per kilogram of foodstuff in contact with
2. °C = degree Celsius
3. MDL=Method Detection Limit
4. ND = Not Detected(less than MDL)

### Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, Paper and board used in food contact materials and articles, EDQM-Specific migration of Lead

Test Method : With reference to EN13130-1:2004, analysis was performed by ICP-MS.

#### Sample 001



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Simulant Used : 3% Acetic Acid (W/V) Aqueous Solution

Test Condition : 70 °C 2.0 hr(s)

<u>Test Item(s)</u>	<u>Max. Permissible</u> <u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
Migration times	-	-	-	1st
Area/Volume	-	dm <sup>2</sup> /kg	-	6.0
Lead (Pb)	ND	mg/kg	0.01	ND
<b>Comment</b>				<b>PASS</b>

### Notes :

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Sample photo:



SGS authenticate the photo on original report only

\*\*\* End of Report \*\*\*



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