

## Test Report

No. SHAFD1814226103

Date: 16 Jul 2018

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Shanghai SUNKEA Packaging Co.,Ltd.

Building #6, No.1366 Qixin Road, Minhang District, Shanghai, China

The following sample(s) was/were submitted and identified on behalf of the clients as : Pulp box

SGS Job No. : O-SHAFL201800281550 ASH18-030487 - SH  
 Date of Sample Received : 28 Jun 2018  
 Testing Period : 28 Jun 2018 - 16 Jul 2018  
 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
Council of Europe Resolution AP (2002)1-Migration of colorants	PASS
Council of Europe Resolution AP (2002)1-Preserving effect	PASS
Council of Europe Resolution AP (2002)1-Specific migration of benzophenone	PASS
Council of Europe Resolution AP (2002)1-Specific migration of 4-methylbenzophenone	PASS
Council of Europe Resolution AP (2002)1-Extractable heavy metals	PASS
Council of Europe Resolution AP (2002)1-Pentachlorophenol (PCP)	PASS

Signed for and on behalf of  
 SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

*Dora Hu*

Dora Hu  
 Approved Signatory



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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description	Material (claimed by the client)
SN1	SHA18-142261.002	Brown pulp box	Paper

Remarks :

- (1) mg/dm<sup>2</sup> = milligram per square decimeter
- (2) mg/kg = milligram per kilogram
- (3) °C= degree Celsius
- (4) < = less than
- (5) MDL = Method Detection Limit
- (6) ND = Not Detected ( < MDL)

**Council of Europe Resolution AP (2002)1-Migration of colorants**

Test Method : With reference to EN 646:2006.

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible Limit</u>	<u>Result of 002</u>	<u>Conclusion</u>
3% Acetic acid (W/V) aqueous solution	10 min	23±2°C	★	Grade 5	PASS
Rectified olive oil	10 min	23±2°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.

**Council of Europe Resolution AP (2002)1-Preserving effect**

Test Method : With reference to EN 1104: 2005.

<u>Test Item(s)</u>	<u>Limit</u>	<u>002</u>
Bacillus subtilis ATCC No. 6633	★	Absent
Aspergillus niger ATCC No.6275	★	Absent
<b>Conclusion</b>		<b>PASS</b>

Notes :

- (1) ★ = Absence of zone inhibition
- (2) Absent denotes absence of antimicrobial constituents which inhibits the growth of tested bacteria and



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fungus.

**Council of Europe Resolution AP (2002)1-Specific migration of benzophenone**

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

**Sample 002**

Simulant Used : Rectified olive oil

Test Condition : 40 °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	-	-	-	First
Area/volume	-	dm <sup>2</sup> /kg	-	6.0
Specific migration of benzophenone	0.6	mg/kg	0.2	ND
<b>Conclusion</b>				<b>PASS</b>

Notes :

(1) Test condition & simulant were specified by client.

**Council of Europe Resolution AP (2002)1-Specific migration of 4-methylbenzophenone**

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

**Sample 002**

Simulant Used : Rectified olive oil

Test Condition : 40 °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	-	-	-	First
Area/volume	-	dm <sup>2</sup> /kg	-	6.0
Specific migration of 4-methylbenzophenone	0.2	mg/kg	0.2	ND
<b>Conclusion</b>				<b>PASS</b>

Notes :

(1) Test condition & simulant were specified by client.

**Council of Europe Resolution AP (2002)1-Extractable heavy metals**



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Test Method : With reference to EN 645:1993 , analysis was performed by ICP-MS.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Extractable Lead	0.003	mg/dm <sup>2</sup>	0.002	ND
Extractable Cadmium	0.002	mg/dm <sup>2</sup>	0.002	ND
Extractable Mercury	0.002	mg/dm <sup>2</sup>	0.002	ND
<b>Conclusion</b>				<b>PASS</b>

## Council of Europe Resolution AP (2002)1-Pentachlorophenol (PCP)

Test Method : With reference to ISO 17070:2015, analysis was performed by GC-ECD and GC-MS.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Pentachlorophenol (PCP)	0.15	mg/kg	0.05	ND
<b>Conclusion</b>				<b>PASS</b>



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