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 [REDACTED]

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

SGS Job No. : SHHL1606030908CW - SH
 Date of Sample Received : 06 Jun 2016
 Testing Period : 06 Jun 2016 - 27 Jun 2016
 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
Migration of colorants	PASS
Preserving effect	PASS
Specific migration of benzophenone	PASS
Specific migration of 4-methylbenzophenone	PASS
Extractable Heavy Metals	PASS
Pentachlorophenol (PCP)	PASS

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

Serena Wang
 Approved Signatory

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Test Report

No. SHAHG1612219801

Date: 27 Jun 2016

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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description	Material (claimed by the client)
SN1	SHA16-122198.001	Brown paper	Paper

Remarks :

- (1) mg/dm² = 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)

Migration of colorants

Test Requested : In accordance with Council of Europe Resolution AP (2002)1, to determine migration of colorants.

Test Method : With reference to EN 646:2006.

Simulant Used	Time	Temperature	Max. Permissible Limit	Result of 001	Conclusion
Rectified olive oil	24 hr	23±2°C	Grade5	Grade 5	PASS

Notes :

- (1) Grey Scale Rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good.

Preserving effect

Test Requested : In accordance with Council of Europe Resolution AP (2002)1, to determine preserving effect.

Test Method : With reference to EN 1104:2005.

Test Item(s)	Limit	001
Bacillus subtilis ATCC No. 6633	★	Absent
Aspergillus niger ATCC No.6275	★	Absent
Conclusion		PASS

Notes :



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

Specific migration of benzophenone

Test Requested : In accordance with Council of Europe Resolution AP (2002)1, to determine specific migration of benzophenone.

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

Sample 001

Simulant Used : Rectified olive oil
 Test Condition : 100 °C 72.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	First
Area/volume	-	dm ² /kg	-	6.0
Specific migration of benzophenone	0.6	mg/kg	0.2	ND
Conclusion				PASS

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

Specific migration of 4-methylbenzophenone

Test Requested : In accordance with Council of Europe Resolution AP (2002)1, to determine specific migration of 4-methylbenzophenone.

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

Sample 001

Simulant Used : Rectified olive oil
 Test Condition : 100 °C 72.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	First
Area/volume	-	dm ² /kg	-	6.0
Specific migration of 4-methylbenzophenone	0.2	mg/kg	0.2	ND



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Conclusion

PASS

Notes :

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

Extractable Heavy Metals

Test Requested : In accordance with Council of Europe Resolution AP (2002)1, to determine extractable heavy metals.

Test Method : With reference to EN 647:1993 , analysis was performed by ICP-MS.

Test Item(s)	Limit	Unit	MDL	001
Extractable Lead	0.003	mg/dm ²	0.002	ND
Extractable Cadmium	0.002	mg/dm ²	0.002	ND
Extractable Mercury	0.002	mg/dm ²	0.002	ND
Conclusion				PASS

Pentachlorophenol (PCP)

Test Requested : In accordance with Council of Europe Resolution AP (2002)1, to determine pentachlorophenol (PCP).

Test Method : With reference to ISO 17070:2006, analysis was performed by GC-ECD and GC-MS.

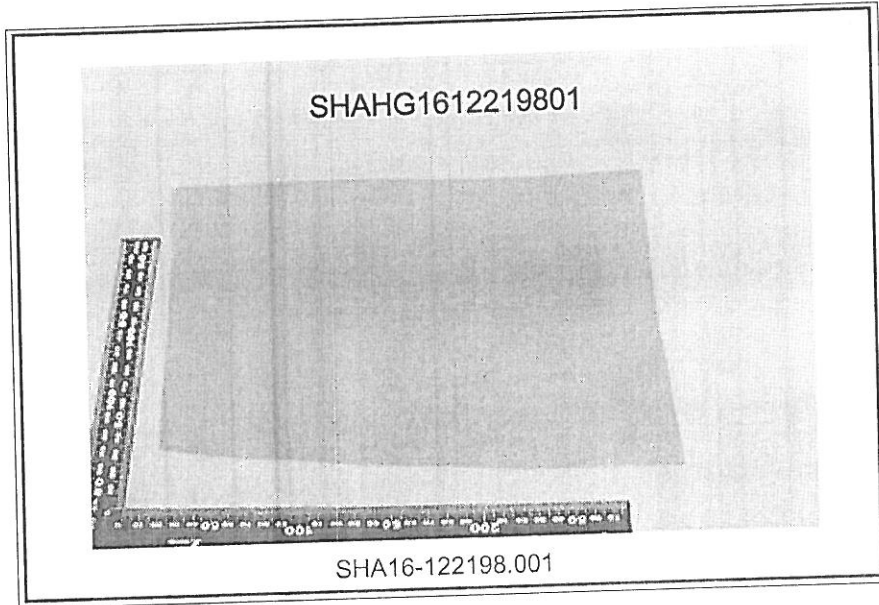
Test Item(s)	Limit	Unit	MDL	001
Pentachlorophenol (PCP)	0.15	mg/kg	0.05	ND
Conclusion				PASS



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Sample photo:



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

SGS Job No. : SHHL1606030909CW - SH
 Date of Sample Received : 06 Jun 2016
 Testing Period : 06 Jun 2016 - 27 Jun 2016
 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
Preserving effect	PASS
Specific migration of benzophenone	PASS
Specific migration of 4-methylbenzophenone	PASS
Extractable Heavy Metals	PASS
Pentachlorophenol (PCP)	PASS

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

Serena Wang
 Approved Signatory

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Test Report

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Date: 27 Jun 2016

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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description	Material (claimed by the client)
SN1	SHA16-122152.001	White paper	Paper

Remarks :

- (1) mg/dm² = 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)

Preserving effect

Test Requested : In accordance with Council of Europe Resolution AP (2002)1, to determine preserving effect.

Test Method : With reference to EN 1104:2005.

Test Item(s)	Limit	001
Bacillus subtilis ATCC No. 6633	★	Absent
Aspergillus niger ATCC No.6275	★	Absent
Conclusion		PASS

Notes :

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

Specific migration of benzophenone

Test Requested : In accordance with Council of Europe Resolution AP (2002)1, to determine specific migration of benzophenone.

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

Sample 001

Simulant Used : Rectified olive oil
 Test Condition : 100 °C 72.0 hr(s)



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Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	First
Area/volume	-	dm ² /kg	-	6.0
Specific migration of benzophenone	0.6	mg/kg	0.2	ND
Conclusion				PASS

Notes :

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

Specific migration of 4-methylbenzophenone

Test Requested : In accordance with Council of Europe Resolution AP (2002)1, to determine specific migration of 4-methylbenzophenone.

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

Sample 001

Simulant Used : Rectified olive oil
 Test Condition : 100 °C 72.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	First
Area/volume	-	dm ² /kg	-	6.0
Specific migration of 4-methylbenzophenone	0.2	mg/kg	0.2	ND
Conclusion				PASS

Notes :

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

Extractable Heavy Metals

Test Requested : In accordance with Council of Europe Resolution AP (2002)1, to determine extractable heavy metals.

Test Method : With reference to EN 647:1993 , analysis was performed by ICP-MS.



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Test Report

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<u>Test Item(s)</u>	<u>Max. Permissible Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
Migration times	-	-	-	First
Area/volume	-	dm ² /kg	-	6.0
Specific migration of benzophenone	0.6	mg/kg	0.2	ND
Conclusion				PASS

Notes :

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

Specific migration of 4-methylbenzophenone

Test Requested : In accordance with Council of Europe Resolution AP (2002)1, to determine specific migration of 4-methylbenzophenone.

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

Sample 001

Simulant Used : Rectified olive oil

Test Condition : 100 °C 72.0 hr(s)

<u>Test Item(s)</u>	<u>Max. Permissible Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
Migration times	-	-	-	First
Area/volume	-	dm ² /kg	-	6.0
Specific migration of 4-methylbenzophenone	0.2	mg/kg	0.2	ND
Conclusion				PASS

Notes :

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

Extractable Heavy Metals

Test Requested : In accordance with Council of Europe Resolution AP (2002)1, to determine extractable heavy metals.

Test Method : With reference to EN 647:1993 , analysis was performed by ICP-MS.



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Test Report

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Date: 27 Jun 2016

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Test Item(s)	Limit	Unit	MDL	001
Extractable Lead	0.003	mg/dm ²	0.002	ND
Extractable Cadmium	0.002	mg/dm ²	0.002	ND
Extractable Mercury	0.002	mg/dm ²	0.002	ND
Conclusion				PASS

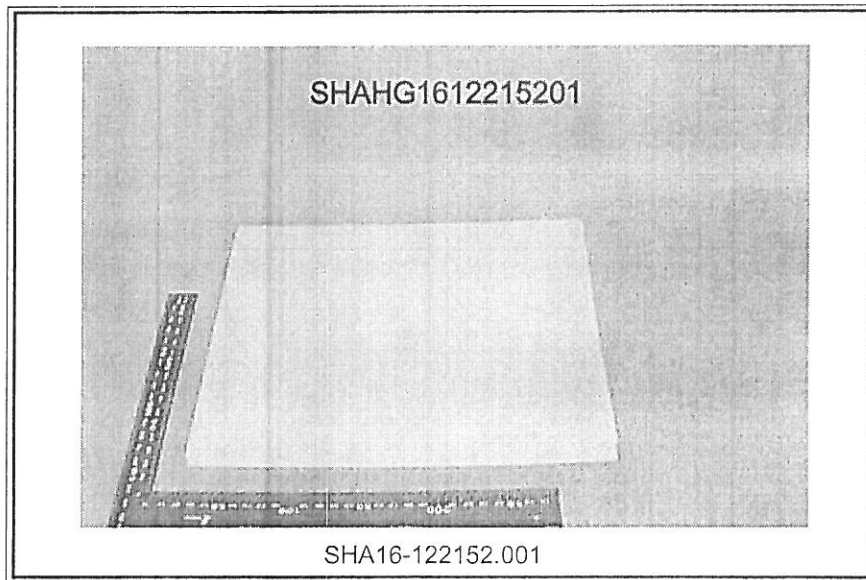
Pentachlorophenol (PCP)

Test Requested : In accordance with Council of Europe Resolution AP (2002)1, to determine pentachlorophenol (PCP).

Test Method : With reference to ISO 17070:2006, analysis was performed by GC-ECD and GC-MS.

Test Item(s)	Limit	Unit	MDL	001
Pentachlorophenol (PCP)	0.15	mg/kg	0.05	ND
Conclusion				PASS

Sample photo:



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CERTIFICATE OF APPROVAL

This is to certify that:

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has been audited by Lloyd's Register Quality Assurance,
and found to meet the requirements set out in:

BRC Global Standard for Packaging and Packaging Materials
Issue 5, July 2015
High Hygiene
Announced

And has attained certification at Grade A applicable to
Product Field: 02 Paper, 07 Printing

**Conversion and printing of paper cups, bowls, containers,
boxes and lids in direct contact with food.**

Approval

Certificate No: QAC6041021

Audit Date: 07 August 2016

BRC Site Code: 1444910

Certificate Issue Date: 28 September 2016

BRC Auditor No: 108123

Re-Audit Due From Date: 11 July 2017

To Date: 07 August 2017

Certificate Expiry: 18 September 2017

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For and on behalf of 1 Trinity Park, Bickenhill Lane, Birmingham, B37 7ES, United Kingdom



Test Report

No. NGBFD1600265201

Date: 28 Jan 2016

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[Redacted client information]

The following sample(s) was/were submitted and identified on behalf of the clients as : PAPER CONTAINER WITH LID/PE

SGS Job No. : NBAFNG160100130NB - NB
Manufacturer : [Redacted]
Country of Destination : EUROPEAN UNION,AMERICA,AUSTRALIA
Date of Sample Received : 18 Jan 2016
Testing Period : 18 Jan 2016 - 28 Jan 2016
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 :

Table with 2 columns: Test Requested, Conclusion. Rows include Overall migration (PASS) and Specific Migration of Heavy Metal (PASS).

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

Iris Xiao (Handwritten signature)

Iris Xiao
Approved Signatory



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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description	Material (claimed by the client)
SN1	NGB16-002652.001	WHITE PAPER CUP WITH PLASTIC FILM	PAPER+PE FILM

Remarks :

- (1) mg/dm² = 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)

Overall migration

Test Requested : In accordance with Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments, to determine 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 conditions and EN1186-1:2002 for selection of test method; EN1186-9:2002 aqueous food simulants by article filling method; EN 1186-14:2002 substitute test.

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible Limit</u>	<u>Result of 001 Overall Migration</u>
3% Acetic Acid (W/V) Aqueous Solution	2.0hr(s)	70°C	10mg/dm ²	<3.0mg/dm ²
95% Ethanol (V/V) Aqueous Solution (Rectified Oliver Oil Substitute)	2.0hr(s)	60°C	10mg/dm ²	<3.0mg/dm ²
Isooctane (Rectified Oliver Oil Substitute)	0.5hr(s)	40°C	10mg/dm ²	<3.0mg/dm ²
10% Ethanol (V/V) Aqueous Solution	2.0hr(s)	70°C	10mg/dm ²	<3.0mg/dm ²

Notes :

- (1) Analytical tolerance of aqueous simulants is 1 mg/dm² .
- (2) Analytical tolerance of fatty food simulants is 3 mg/dm² .
- (3) Test condition & simulant were specified by client.



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Specific Migration of Heavy Metal

Test Requested : In accordance with Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments, to determine specific migration of heavy metal.

Test Method : Sample preparation with reference to EN13130-1:2004; analysis was performed by ICP-OES.

Sample 001

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

Test Condition : 40 °C 0.5 hr(s)

<u>Test Item(s)</u>	<u>Max. Permissible Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
Barium	1	mg/kg	0.25	ND
Cobalt	0.05	mg/kg	0.01	ND
Copper	5	mg/kg	0.25	ND
Iron	48	mg/kg	0.25	ND
Lithium	0.6	mg/kg	0.5	ND
Manganese	0.6	mg/kg	0.25	ND
Zinc	25	mg/kg	0.5	ND

Notes :

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

Remark:

(1) The migration results are based on the first migration.

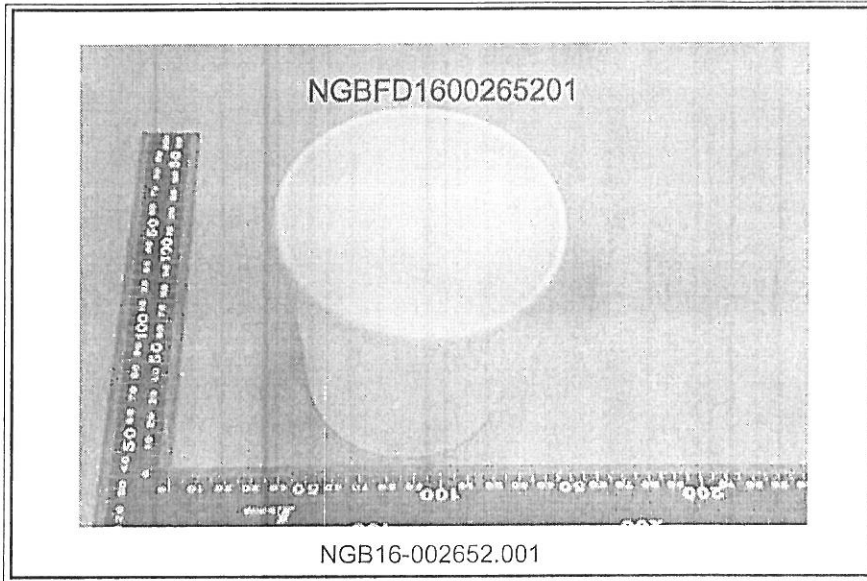


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