

Test Report

No. SHAHG2207568803

Date: 16 Aug 2022

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Client Name : NINGBO MILLIONPACK CO., LTD

Client Address : #500 CHUNXIAO AVENUE, BEILUN DISTRICT, NINGBO 315830 CHINA

Sample Name : DISPOSABLE PAPER BOXES: CARDBOARD WITH PE COATED KRAFT PAPER WITHOUT COATED

Item No. : PAPER BOX

Manufacturer : NINGBO MILLIONPACK CO., LTD

Country of Origin : CHINA

Style No. : MY01K1OK01

Client Ref. Information : MATERIAL: KRAFT PAPER, WHITE CARDBOARD PAPER, WHITE/ BROWN, KRAFT AND WHITE PAPER WITH PE/ PLA COATED

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

SGS Job No. : SHHL2206021093CW - SH

Date of Sample Received : 20 Jun 2022

Testing Period : 20 Jun 2022 - 16 Aug 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).



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Result Summary :

Test Requested	Conclusion
Paper and board used in food contact materials and articles, EDQM-Fastness of fluorescent whitened paper and board	PASS
Paper and board used in food contact materials and articles, EDQM-Colour Fastness	PASS
(EU) No 10/2011 and its amendment (EU) 2020/1245 Regulation-Overall migration	PASS
Paper and board used in food contact materials and articles, EDQM-Fastness of fluorescent whitened paper and board	PASS
Paper and board used in food contact materials and articles, EDQM-Colour Fastness	PASS
Paper and board used in food contact materials and articles, EDQM-Sensorial examination odour and taste test	PASS
Paper and board used in food contact materials and articles, EDQM-Transfer of antimicrobial agents	PASS
(EU) No 10/2011 and its amendment (EU) 2020/1245 Regulation -Specific migration of heavy metal	PASS
(EU) No 10/2011 and its amendment (EU) 2020/1245 Regulation -Specific migration of primary aromatic amine (total)	PASS
Paper and board used in food contact materials and articles, EDQM-Specific migration of primary aromatic amine	PASS
Paper and board used in food contact materials and articles, EDQM-Specific migration of phthalates	PASS
Paper and board used in food contact materials and articles, EDQM-Specific migration of benzo(a)pyrene, benzo(a)anthracene, benzo(b)fluoranthene and chrysene	PASS
Paper and board used in food contact materials and articles, EDQM-Specific migration of bisphenol A(BPA)	PASS

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

Xiang Zhou

Xiang Zhou
Approved Signatory

scan to see the report



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Test Result(s) :

Test Part Description :

Specimen No.	SGS Sample ID	Description	Material (claimed by the client)
SN1	SHA22-075688.002	White paper with transparent plastic film	Paper+PE
SN2	SHA22-075688.003	Transparent plastic film with white paper	PE+Paper
SN3	SHA22-075688.004	Whole product(white style)	Whole product
SN4	SHA22-075688.008	Brown paper (Receiving date: Jul.20th, 2022)	Paper
SN5	SHA22-075688.009	Brown paper (Receiving date: Aug.9th, 2022)	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)

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.

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible Limit</u>	<u>Result of 002 Migration</u>	<u>Conclusion</u>
3% Acetic acid (W/V) aqueous solution	24 hr(s)	23±2°C	★	Grade 5	PASS
Alkaline salt solution	24 hr(s)	23±2°C	★	Grade 5	PASS
<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible Limit</u>	<u>Result of 008 Migration</u>	<u>Conclusion</u>
3% Acetic acid (W/V) aqueous solution	24 hr(s)	23±2°C	★	Grade 5	PASS
Alkaline salt solution	24 hr(s)	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.

Paper and board used in food contact materials and articles, EDQM-Colour Fastness



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Test Method : With reference to EN 646: 2018.

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible</u> <u>Limit</u>	<u>Result of 008</u>	<u>Conclusion</u>
3% Acetic acid (W/V) aqueous solution	24 hr	23±2°C	★	Grade 5	PASS
Alkaline salt solution	24 hr	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.

(EU) No 10/2011 and its amendment (EU) 2020/1245 Regulation-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 1186-9: 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</u> <u>Limit</u>	<u>Result of 003</u> <u>Overall migration</u>	<u>Conclusion</u>
3% Acetic acid (W/V) aqueous solution (First migration)	2.0hr(s)	70°C	10mg/dm ²	<3.0mg/dm ²	PASS
10% Ethanol (V/V) Aqueous Solution (First migration)	2.0hr(s)	70°C	10mg/dm ²	<3.0mg/dm ²	PASS
95% Ethanol (First migration)	2.0hr(s)	60°C	10mg/dm ²	<3.0mg/dm ²	PASS
Isooctane (First migration)	0.5hr(s)	40°C	10mg/dm ²	<3.0mg/dm ²	PASS
Area/Volume			-	5.6dm ² /kg	

Notes :

(1) Analytical tolerance of aqueous simulants is 2 mg/dm² or 12 mg/kg.

(2) Analytical tolerance of fatty food simulants is 3 mg/dm² or 20mg/kg.

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

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.



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<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible</u> <u>Limit</u>	<u>Result of 002</u>	<u>Conclusion</u>
Deionized water	30 min	90±3°C	★	Grade 5	PASS
Rectified olive oil	30 min	120±3°C	★	Grade 5	PASS

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible</u> <u>Limit</u>	<u>Result of 008</u>	<u>Conclusion</u>
Deionized water	30 min	90±3°C	★	Grade 5	PASS
Rectified olive oil	30 min	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.

Paper and board used in food contact materials and articles, EDQM-Colour Fastness

Test Method : With reference to EN 646: 2018.

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible</u> <u>Limit</u>	<u>Result of 008</u>	<u>Conclusion</u>
Rectified olive oil	30 min	120±3°C	★	Grade 5	PASS
Deionized water	30 min	90±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.

Paper and board used in food contact materials and articles, EDQM-Sensorial examination odour and taste test

Test Method : With reference to DIN 10955: 2004

No. of panelist: 6

<u>Test Item(s)</u>	<u>Limit</u>	<u>004</u>	<u>009</u>
Test media	-	DW	BREAD
Test time (hr(s))	-	2	2
Temperature(°C)	-	70	70
Sensorial examination odour (Point scale)	2.5	0	0
Sensorial examination taste (Point scale)	2.5	0	0
Conclusion		PASS	PASS



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Notes :

Intensity scale (rounded at 0.5):

0 – no perceptible difference

1 – just perceptible difference

2 – slight difference

3 – marked difference

4 – strong difference

DW= Distilled water

Paper and board used in food contact materials and articles, EDQM-Transfer of antimicrobial agents

Test Method : With reference to EN 1104: 2018

Test Item(s)	Limit	002	008
Bacillus subtilis ATCC No. 6633	★	Absent	Absent
Aspergillus niger ATCC No.6275	★	Absent	Absent
Conclusion		PASS	PASS

Notes :

(1) ★ = Absence of zone inhibition

(2) Absent denotes absence of Antimicrobial constituents which inhibits the growth of tested bacteria and fungus

(EU) No 10/2011 and its amendment (EU) 2020/1245 Regulation -Specific migration of heavy metal

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

Sample 002

Simulant Used : 3% Acetic acid (W/V) aqueous solution

Test Condition : 70 °C 2.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	First
Area/volume	-	dm ² /kg	-	5.6
Lead(Pb)	ND	mg/kg	0.01	ND
Conclusion				PASS

Sample 003

Simulant Used : 3% Acetic acid (W/V) aqueous solution



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Test Condition : 70 °C 2.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	First
Area/volume	-	dm ² /kg	-	5.6
Arsenic(As)	ND	mg/kg	0.01	ND
Cadmium(Cd)	ND	mg/kg	0.002	ND
Chromium(Cr)	ND	mg/kg	0.01	ND
Mercury(Hg)	ND	mg/kg	0.01	ND
Lead(Pb)	ND	mg/kg	0.01	ND
Aluminium(Al)	1	mg/kg	0.1	ND
Barium(Ba)	1	mg/kg	0.25	ND
Cobalt(Co)	0.05	mg/kg	0.01	ND
Copper(Cu)	5	mg/kg	0.25	ND
Iron(Fe)	48	mg/kg	5	ND
Lithium(Li)	0.6	mg/kg	0.1	ND
Manganese(Mn)	0.6	mg/kg	0.1	ND
Zinc(Zn)	5	mg/kg	0.5	ND
Nickel(Ni)	0.02	mg/kg	0.01	ND
Antimony(Sb)	0.04	mg/kg	0.01	ND
Europium (Eu)	-	mg/kg	0.025	ND
Gadolinium(Gd)	-	mg/kg	0.025	ND
Lanthanum(La)	-	mg/kg	0.025	ND
Terbium(Tb)	-	mg/kg	0.025	ND
Europium (Eu)+ Gadolinium(Gd)+ Lanthanum(La)+ Terbium(Tb)	0.05	mg/kg	-	ND
Conclusion	PASS			

Sample 008

Simulant Used : 3% Acetic acid (W/V) aqueous solution

Test Condition : 70 °C 2.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	First
Area/volume	-	dm ² /kg	-	6.0
Arsenic(As)	ND	mg/kg	0.01	ND
Cadmium(Cd)	ND	mg/kg	0.002	ND
Chromium(Cr)	ND	mg/kg	0.01	ND



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Mercury(Hg)	ND	mg/kg	0.01	ND
Lead(Pb)	ND	mg/kg	0.01	ND
Aluminium(Al)	1	mg/kg	0.1	ND
Barium(Ba)	1	mg/kg	0.25	ND
Cobalt(Co)	0.05	mg/kg	0.01	ND
Copper(Cu)	5	mg/kg	0.25	ND
Iron(Fe)	48	mg/kg	5	ND
Lithium(Li)	0.6	mg/kg	0.1	ND
Manganese(Mn)	0.6	mg/kg	0.1	ND
Zinc(Zn)	5	mg/kg	0.5	ND
Nickel(Ni)	0.02	mg/kg	0.01	ND
Antimony(Sb)	0.04	mg/kg	0.01	ND
Europium (Eu)	-	mg/kg	0.025	ND
Gadolinium(Gd)	-	mg/kg	0.025	ND
Lanthanum(La)	-	mg/kg	0.025	ND
Terbium(Tb)	-	mg/kg	0.025	ND
Europium (Eu)+ Gadolinium(Gd)+ Lanthanum(La)+ Terbium(Tb)	0.05	mg/kg	-	ND

Conclusion

PASS

Notes :

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

(EU) No 10/2011 and its amendment (EU) 2020/1245 Regulation -Specific migration of primary aromatic amine (total)

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

Sample 003

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	-	-	-	First
Area/volume	-	dm ² /kg	-	5.6
Specific migration of primary aromatic amine	0.01	mg/kg	0.002	ND
Conclusion				PASS

Notes :

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



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Paper and board used in food contact materials and articles, EDQM-Specific migration of primary aromatic amine

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

Sample 002

Simulant Used : 3% Acetic acid (W/V) aqueous solution

Test Condition : 70 °C 2.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	First
Area/volume	-	dm ² /kg	-	5.6
2,4,5-Trimethylaniline(2,4,5-TMA)	0.002	mg/kg	0.002	ND
2,4-Toluenediamine(2,4-TDA)	0.002	mg/kg	0.002	ND
2-Methoxy-5-Methylaniline(2-M-5-MA)	0.002	mg/kg	0.002	ND
3,3'-Dimethylbenzidine(3,3'-DMB)	0.002	mg/kg	0.002	ND
4,4'-Diaminodiphenylether(4,4'-DPE)	0.002	mg/kg	0.002	ND
4,4'-Methylenedianiline(4,4'-MDA)	0.002	mg/kg	0.002	ND
4,4'-Methylenedi-o-toluidine(4,4'-MDoT)	0.002	mg/kg	0.002	ND
4-Aminobiphenyl(4-ABP)	0.002	mg/kg	0.002	ND
4-Chloro-Aniline(4-CA)	0.002	mg/kg	0.002	ND
4-Chloro-o-Toluidine(4-CoT)	0.002	mg/kg	0.002	ND
4-Methoxy-mphenylenediamine(4-M-mPDA)	0.002	mg/kg	0.002	ND
Benzidine(BNZ)	0.002	mg/kg	0.002	ND
o-Anisidine(o-ASD)	0.002	mg/kg	0.002	ND
o-Toluidine(o-T)	0.002	mg/kg	0.002	ND
1,3-phenylenediamine	0.002	mg/kg	0.002	ND
2-naphthylamine	0.002	mg/kg	0.002	ND
o-aminoazotoluene	0.002	mg/kg	0.002	ND
2-Amino-4-nitrotoluene	0.002	mg/kg	0.002	ND
3,3'-dichlorobenzidine	0.002	mg/kg	0.002	ND
3,3'-dimethoxybenzidine	0.002	mg/kg	0.002	ND
4,4'-methylene-bis-(2-chloro-aniline)	0.002	mg/kg	0.002	ND
4,4'-thiodianiline	0.002	mg/kg	0.002	ND
4-amino azobenzene	0.002	mg/kg	0.002	ND
1,3-Diiminoisindoline	-	mg/kg	0.01	ND
3-Anisidine	-	mg/kg	0.002	ND
2-Amino-1-naphthalinesulfonic acid	-	mg/kg	0.005	ND



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2-Ethoxyaniline	-	mg/kg	0.005	ND
5-Chloro-2-methoxyaniline	-	mg/kg	0.005	ND
2-Chloraniline	-	mg/kg	0.01	ND
4-Toluidine	-	mg/kg	0.002	ND
1,4-Phenylenediamine	-	mg/kg	0.002	ND
3-Chloroaniline	-	mg/kg	0.01	ND
3-Toluidine	-	mg/kg	0.002	ND
3-Amino-4-methoxybenzanilide	-	mg/kg	0.002	ND
2-Chloro-4-nitroaniline	-	mg/kg	0.005	ND
4-Chlor-3-methoxyaniline	-	mg/kg	0.005	ND
4-Ethoxyaniline	-	mg/kg	0.002	ND
3-Amino-4-methylbenzamide	-	mg/kg	0.002	ND
1,5-Diaminonaphthalene	-	mg/kg	0.002	ND
4-Aminobenzamide	-	mg/kg	0.005	ND
Aniline	-	mg/kg	0.002	ND
4-Chlor-2,5-dimethoxyaniline	-	mg/kg	0.005	ND
2,4,5-Trichloroaniline	-	mg/kg	0.01	ND
5-Amino-6-methylbenzimidazolone	-	mg/kg	0.005	ND
2,6- Diaminotoluene	-	mg/kg	0.002	ND
2,6-Dimethylaniline (2,6-DMA)	-	mg/kg	0.002	ND
4-Aminotoluene-3-sulfonic acid	-	mg/kg	0.005	ND
1,2-Phenylenediamine	-	mg/kg	0.002	ND
2,4-Dimethylaniline (2,4-DMA)	-	mg/kg	0.002	ND
5-Chloro-2-methylaniline	-	mg/kg	0.005	ND
2,5-Dichloroaniline	-	mg/kg	0.01	ND
2,4-Dinitroaniline	-	mg/kg	0.005	ND
2-Methoxy-4-nitroaniline	-	mg/kg	0.005	ND
p-Anisidine	-	mg/kg	0.002	ND
Dimethyl aminoterephthalate	-	mg/kg	0.002	ND
3,4-dichloroaniline	-	mg/kg	0.002	ND
1-Naphthylamine	-	mg/kg	0.002	ND
2-Aminobiphenyl	-	mg/kg	0.002	ND
Butyl Anthranilate	-	mg/kg	0.002	ND
2,4-Diaminodiphenylmethane	-	mg/kg	0.002	ND
2-Amino-5-methylbenzoic acid	-	mg/kg	0.002	ND
Total	0.01	mg/kg	-	ND

Conclusion

PASS

Sample 008

Simulant Used : 3% Acetic acid (W/V) aqueous solution



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Test Condition : 70 °C 2.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	First
Area/volume	-	dm ² /kg	-	6.0
2,4,5-Trimethylaniline(2,4,5-TMA)	0.002	mg/kg	0.002	ND
2,4-Toluenediamine(2,4-TDA)	0.002	mg/kg	0.002	ND
2-Methoxy-5-Methylaniline(2-M-5-MA)	0.002	mg/kg	0.002	ND
3,3'-Dimethylbenzidine(3,3'-DMB)	0.002	mg/kg	0.002	ND
4,4'-Diaminodiphenylether(4,4'-DPE)	0.002	mg/kg	0.002	ND
4,4'-Methylenedianiline(4,4'-MDA)	0.002	mg/kg	0.002	ND
4,4'-Methylenedi-o-toluidine(4,4'-MDoT)	0.002	mg/kg	0.002	ND
4-Aminobiphenyl(4-ABP)	0.002	mg/kg	0.002	ND
4-Chloro-Aniline(4-CA)	0.002	mg/kg	0.002	ND
4-Chloro-o-Toluidine(4-CoT)	0.002	mg/kg	0.002	ND
4-Methoxy-mphenylenediamine(4-M-mPDA)	0.002	mg/kg	0.002	ND
Benzidine(BNZ)	0.002	mg/kg	0.002	ND
o-Anisidine(o-ASD)	0.002	mg/kg	0.002	ND
o-Toluidine(o-T)	0.002	mg/kg	0.002	ND
1,3-phenylenediamine	0.002	mg/kg	0.002	ND
2-naphthylamine	0.002	mg/kg	0.002	ND
o-aminoazotoluene	0.002	mg/kg	0.002	ND
2-Amino-4-nitrotoluene	0.002	mg/kg	0.002	ND
3,3'-dichlorobenzidine	0.002	mg/kg	0.002	ND
3,3'-dimethoxybenzidine	0.002	mg/kg	0.002	ND
4,4'-methylene-bis-(2-chloro-aniline)	0.002	mg/kg	0.002	ND
4,4'-thiodianiline	0.002	mg/kg	0.002	ND
4-amino azobenzene	0.002	mg/kg	0.002	ND
1,3-Diiminoisindoline	-	mg/kg	0.01	ND
3-Anisidine	-	mg/kg	0.002	ND
2-Amino-1-naphthalenesulfonic acid	-	mg/kg	0.005	ND
2-Ethoxyaniline	-	mg/kg	0.005	ND
5-Chloro-2-methoxyaniline	-	mg/kg	0.005	ND
2-Chloraniline	-	mg/kg	0.01	ND
4-Toluidine	-	mg/kg	0.002	ND
1,4-Phenylenediamine	-	mg/kg	0.002	ND
3-Chloroaniline	-	mg/kg	0.01	ND
3-Toluidine	-	mg/kg	0.002	ND
3-Amino-4-methoxybenzanilide	-	mg/kg	0.002	ND



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2-Chloro-4-nitroaniline	-	mg/kg	0.005	ND
4-Chlor-3-methoxyaniline	-	mg/kg	0.005	ND
4-Ethoxyaniline	-	mg/kg	0.002	ND
3-Amino-4-methylbenzamide	-	mg/kg	0.002	ND
1,5-Diaminonaphthalene	-	mg/kg	0.002	ND
4-Aminobenzamide	-	mg/kg	0.005	ND
Aniline	-	mg/kg	0.002	ND
4-Chlor-2,5-dimethoxyaniline	-	mg/kg	0.005	ND
2,4,5-Trichloroaniline	-	mg/kg	0.01	ND
5-Amino-6-methylbenzimidazolone	-	mg/kg	0.005	ND
2,6- Diaminotoluene	-	mg/kg	0.002	ND
2,6-Dimethylaniline (2,6-DMA)	-	mg/kg	0.002	ND
4-Aminotoluene-3-sulfonic acid	-	mg/kg	0.005	ND
1,2-Phenylendiamine	-	mg/kg	0.002	ND
2,4-Dimethylaniline (2,4-DMA)	-	mg/kg	0.002	ND
5-Chloro-2-methylaniline	-	mg/kg	0.005	ND
2,5-Dichloroaniline	-	mg/kg	0.01	ND
2,4-Dinitroaniline	-	mg/kg	0.005	ND
2-Methoxy-4-nitroaniline	-	mg/kg	0.005	ND
p-Anisidine	-	mg/kg	0.002	ND
Dimethyl aminoterephthalate	-	mg/kg	0.002	ND
3,4-dichloroaniline	-	mg/kg	0.002	ND
1-Naphthylamine	-	mg/kg	0.002	ND
2-Aminobiphenyl	-	mg/kg	0.002	ND
Butyl Anthranilate	-	mg/kg	0.002	ND
2,4-Diaminodiphenylmethane	-	mg/kg	0.002	ND
2-Amino-5-methylbenzoic acid	-	mg/kg	0.002	ND
Total	0.01	mg/kg	-	ND

Conclusion

PASS

Notes :

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

Paper and board used in food contact materials and articles, EDQM-Specific migration of phthalates

Test Method : With reference to EN 15519:2007, analysis was performed by GC-MS.
95% Ethanol, 60 °C 2 hours

Test Item(s)	CAS NO.	Limit	Unit	MDL	002
Di (2-ethylhexyl) Phthalate(DEHP)	117-81-7	1.5	mg/kg	0.05	ND



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<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Dibutyl Phthalate(DBP)	84-74-2	-	mg/kg	0.05	ND
Diisobutyl Phthalate(DIBP)	84-69-5	-	mg/kg	0.05	ND
Dibutyl phthalate(DBP)+ Diisobutyl Phthalates (DIBP)	-	0.3	mg/kg	-	ND
Conclusion					PASS

<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>008</u>
Di (2-ethylhexyl) Phthalate(DEHP)	117-81-7	1.5	mg/kg	0.05	ND
Dibutyl Phthalate(DBP)	84-74-2	-	mg/kg	0.05	ND
Diisobutyl Phthalate(DIBP)	84-69-5	-	mg/kg	0.05	ND
Dibutyl phthalate(DBP)+ Diisobutyl Phthalates (DIBP)	-	0.3	mg/kg	-	ND
Conclusion					PASS

Paper and board used in food contact materials and articles, EDQM-Specific migration of benzo(a)pyrene, benzo(a)anthracene, benzo(b)fluoranthene and chrysene

Test Method : With reference to EN 15519:2007, analysis was performed by GC-MS.
95% Ethanol, 60 °C 2 hours

<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Benzo(a)pyrene(BaP)	50-32-8	-	mg/kg	0.001	ND
Benzo(a)anthracene(BaA)	56-55-3	-	mg/kg	0.001	ND
Benzo(b)fluoranthene(BbF)	205-99-2	-	mg/kg	0.001	ND
Chrysene(CHR)	218-01-9	-	mg/kg	0.001	ND
Sum of above	-	0.001	mg/kg	-	ND
Conclusion					PASS

<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>008</u>
Benzo(a)pyrene(BaP)	50-32-8	-	mg/kg	0.001	ND
Benzo(a)anthracene(BaA)	56-55-3	-	mg/kg	0.001	ND
Benzo(b)fluoranthene(BbF)	205-99-2	-	mg/kg	0.001	ND
Chrysene(CHR)	218-01-9	-	mg/kg	0.001	ND
Sum of above	-	0.001	mg/kg	-	ND
Conclusion					PASS

Paper and board used in food contact materials and articles, EDQM-Specific migration of bisphenol A(BPA)



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Test Method : With reference to EN15519:2007, analysis was performed by LC-MS and LC-MS-MS.
95% Ethanol, 60 °C 2 hours

Test Item(s)	Limit	Unit	MDL	002
Specific migration of bisphenol A	0.05	mg/kg	0.01	ND
Conclusion				PASS

Test Item(s)	Limit	Unit	MDL	008
Specific migration of bisphenol A	0.05	mg/kg	0.01	ND
Conclusion				PASS

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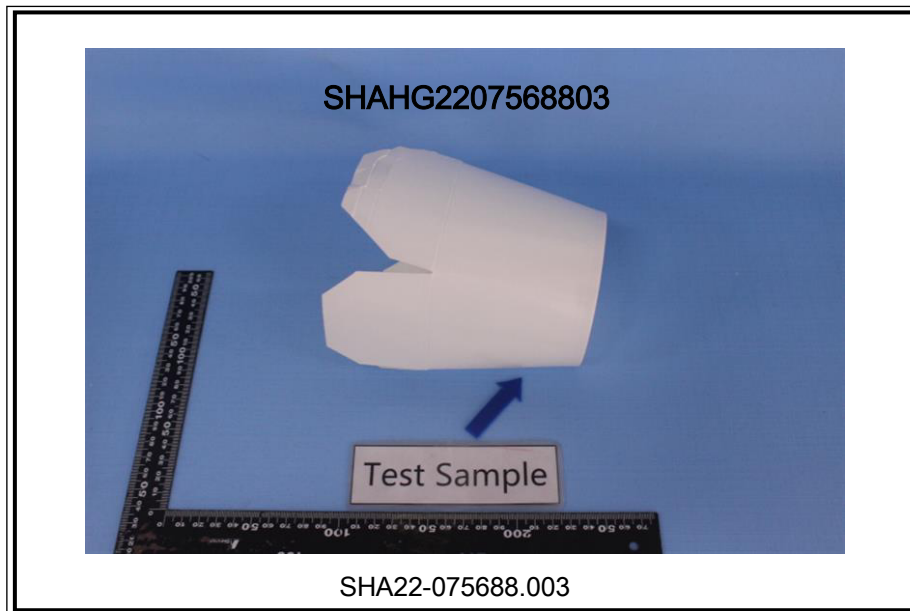
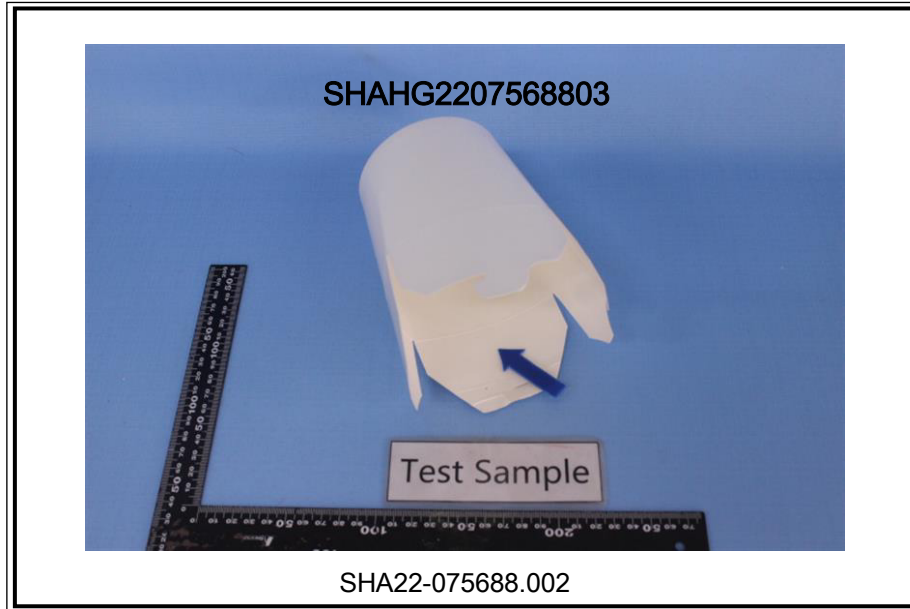
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