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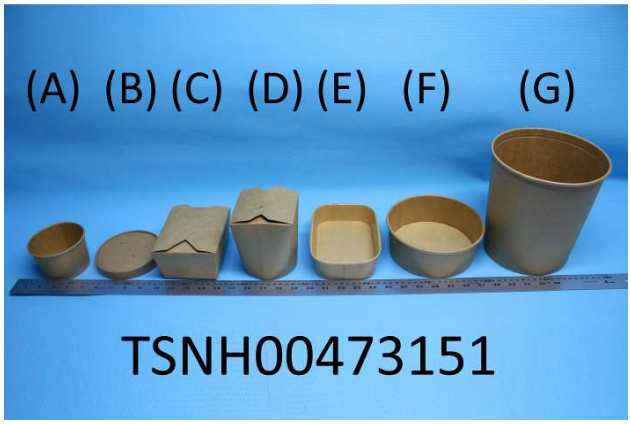
Test Report

NUMBER : TSNH00473151

Applicant : [redacted]

Date : Nov 07, 2023

Photo:



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To be continued

Authorized By :
For Intertek Testing Services
(Tianjin) Ltd.

David Zhang
Senior Manager

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Sample Description:

Seven (7) submitted sample said to be
(A) PAPER CUP
(B) PAPER LID
(C) PAPER BOX
(D) PAPER NOODEL BOX
(E) PAPER TRAY
(F) PAPER BOWL
(G) PAPER BUCKET

Item Name : PAPER BUCKET, PAPER SALAD BOWL, PAPER SOUP CUP, PAPER NOODEL BOX, PAPER LID, PAPER TRAY, PAPER CUP

Materrial : PE film paper

Remark: As per client's requirement, only sample (A) was tested.

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Tests Conducted:

As requested by the applicant, for details refer to attached page(s).

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Conclusion:

Tested Componemt	Standard	Result
(1)	European Commission Regulation No. 10/2011, amendment No. 2020/1245 and other amendments and Regulation No. 1935/2004 - Overall migration	Pass
(1)	European Commission Regulation No. 10/2011 Annex II and Amendment No. 2016/1416 and No. 2017/752 and No. 2020/1245 and Regulation 1935/2004 on specific migration of heavy metal content	Pass
(1)	European Commission Regulation No. 10/2011 Annex I and II and Amendment No. 2020/1245 and Regulation 1935/2004 on specific migration of primary aromatic amines	Pass

As per client's request, only conduct one trial of test.

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1. Overall Migration Test for Plastic Food Contacting Materials/Articles

As per Commission Regulation (EU) No. 10/2011 and its amendments on plastic materials and articles intended to come into contact with food.

Test Method : EN 1186-2:2022 / EN 1186-3:2022

I. Test Condition:

Aqueous food simulant	
Test No.	Time and Temperature
OM3	2 hours at 70 °C

II. Test Results:

Tested Component	Result in mg/dm^2
	10% (v/v) ethanol
	1st
(1)	<1
Limit in mg/dm^2	10

Requirement:
Result of 3rd migration < SML, and
Result of 1st migration ≥ 2nd migration ≥ 3rd migration after consideration of result uncertainty.

Ratio of food contact surface area to volume of component (1) used to establish the compliance of material or article = 2.0 dm^2 : 300 mL.

Remark: As per client's request, the above condition and food simulant was used for the test.

Tested Components:
(1) Internal plastic film for sample(A) use

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To be continued

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2. Specific Migration of Heavy Metal

As per Commission Regulation (EU) No. 10/2011 and its amendments.

I. Test condition:

Food simulant: 3% (w/v) Acetic acid
Temperature: 70 °C Time: 2 hours

II. Test result:

Test Component:			
Element	Result (mg/kg) 1st migration	Detection limit (mg/kg)	Limit (mg/kg)
Aluminum(Al) ¤	ND	0.1	1
Antimony(Sb) ¤	ND	0.01	0.04
Arsenic(As) ¤	ND	0.01	ND
Barium(Ba)	ND	0.1	1
Cadmium(Cd) ¤	ND	0.002	ND
Chromium(Cr) ¤	ND	0.01	ND
Cobalt(Co)	ND	0.03	0.05
Copper(Cu)	ND	1	5
Iron(Fe)	ND	5	48
Lead(Pb) ¤	ND	0.01	ND
Lithium(Li)	ND	0.1	0.6
Manganese(Mn)	ND	0.1	0.6
Mercury(Hg) ¤	ND	0.01	ND
Nickel(Ni) ¤	ND	0.01	0.02
Zinc(Zn)	ND	1	5
Europium(Eu) ¤	ND	0.01	0.05
Gadolinium(Gd) ¤	ND	0.01	0.05
Lanthanum(La) ¤	ND	0.01	0.05
Terbium(Tb) ¤	ND	0.01	0.05
Sum of (Eu, Gd, La, Tb) ¤	ND	0.04	0.05

Requirement:
Result of 3rd migration < SML, and
Result of 1st migration ≥ 2nd migration ≥ 3rd migration after consideration of result uncertainty.
Result of 1st, 2nd and 3rd migration < SML when SML limit is Not Detected (ND)

Ratio of food contact surface area to volume of component (1) used to establish the compliance of material or article = 2.0 dm^2 : 300 mL.

Remark: ND = Not detected(less than detection limit)
As per client's request, the above condition and food simulant was / were used for the test.

Tested component(s) :
(1) Internal plastic film for sample(A) use

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3. Specific Migration of Primary Aromatic Amines

With reference to Commission Regulation (EU) No. 10/2011 and its amendments, and JRC Technical Guidelines EUR 24815 EN 2011.

I. Test condition:

Food simulant: 3% (w/v) Acetic acid

Temperature:70 °C Time: 2 hours

II. Test Result:

Test Component: (1)							
Test Item		CAS No.	Result (mg/kg)			Detection Limit (mg/kg)	Limit (mg/kg)
			1st migration	2nd migration	3rd migration		
1	4-Aminodiphenyl	92-67-1	ND	ND	ND	0.002	ND
2	Benzidine	92-87-5	ND	ND	ND	0.002	ND
3	4-Chloro-o-Toluidine	95-69-2	ND	ND	ND	0.002	ND
4	2-Naphthylamine	91-59-8	ND	ND	ND	0.002	ND
5	o-Aminoazotoluene	97-56-3	ND	ND	ND	0.002	ND
6	2-Amino-4-Nitrotoluene	99-55-8	ND	ND	ND	0.002	ND
7	p-Chloroaniline	106-47-8	ND	ND	ND	0.002	ND
8	2,4-Diaminoanisole	615-05-4	ND	ND	ND	0.002	ND
9	4,4'-Diaminodiphenylmethane	101-77-9	ND	ND	ND	0.002	ND
10	3,3'-Dichlorobenzidine	91-94-1	ND	ND	ND	0.002	ND
11	3,3'-Dimethoxybenzidine	119-90-4	ND	ND	ND	0.002	ND
12	3,3'-Dimethylbenzidine	119-93-7	ND	ND	ND	0.002	ND
13	3,3'-Dimethyl-4,4'diaminodiphenylmethane	838-88-0	ND	ND	ND	0.002	ND
14	p-Cresidine	120-71-8	ND	ND	ND	0.002	ND
15	4,4'-Methylene-Bis(2-Chloroaniline)	101-14-4	ND	ND	ND	0.002	ND
16	4,4'-Oxydianiline	101-80-4	ND	ND	ND	0.002	ND
17	4,4'-Thiodianiline	139-65-1	ND	ND	ND	0.002	ND
18	o-Toluidine	95-53-4	ND	ND	ND	0.002	ND
19	2,4-Toluylenediamine	95-80-7	ND	ND	ND	0.002	ND
20	2,4,5-Trimethylaniline	137-17-7	ND	ND	ND	0.002	ND
21	o-Anisidine	90-04-0	ND	ND	ND	0.002	ND
22	4-Aminoazobenzene	60-09-3	ND	ND	ND	0.002	ND
23	m-Phenylendiamine	108-45-2	ND	ND	ND	0.002	ND
24	Benzoguanamin	91-76-9	ND	ND	ND	0.05	5
25	4,4'-Methylenebis(3-chloro-2,6-diethylaniline	106246-33-7	ND	ND	ND	0.01	0.05
26	Total of other primary aromatic amine	-	ND	ND	ND	0.01	0.01

Requirement:
Result of 3rd migration < SML, and
Result of 1st migration ≥ 2nd migration ≥ 3rd migration after consideration of result uncertainty.
Result of 1st, 2nd and 3rd migration < SML when SML limit is Not Detected (ND)

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Ratio of food contact surface area to volume of component (1) used to establish the compliance of material or article = 2 dm^2 : 300 mL.
Remark: ND = Not detected (less than detection limit)

Other primary aromatic amines are p-Phenylendiamine, Aniline, 2,4-Xylidine, 2,6-Xylidine, 3-Methoxyaniline, 2,6- Toluene-diamine, 1,5-Diaminonaphthalene, 4-Ethoxyaniline, 3-Amino-4-methoxybenzanilide, 3-Amino-4-methylbenzamide, 2-Amino-5-methylbenzoic acid

Tested component(s) :
(1) Internal plastic film for sample(A) use

Date sample received: Oct 20, 2023
Testing period: Oct 20, 2023 To Nov 07, 2023

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End of report

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