

TEST REPORT

Approved date: Jun. 28, 2021

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Client

Address

The following submitted sample(s) was/were identified by/on behalf of the client as

Sample Name PIPING BAG
 Model No. SPECIAL PE
 Country of origin China
 Manufacturer
 Buyer CUSTOMER
 Material PE

Summary

Date Received May 24, 2021

Test Period May 24, 2021 to Jun. 28, 2021

Test Request As specified by client, to perform the following specified tests: **Conclusion**

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004 on materials and articles intended to come into contact with food

--Sensorial examination	PASS
--Overall migration	PASS
--Specific migration of heavy metal (19 elements)	PASS
--Phthalate content	PASS
--Primary Aromatic Amine	PASS
--Specific migration of Bisphenol A (BPA)	See test result
--Specific Migration of Acrylonitrile	See test result
--Specific Migration of Caprolactam	See test result
--Isocyanate	See test result

For more information about the test, please refer to the following pages.

Compiled
By

He hai ying

Checked
By

Zhu Zhengfeng

Approved
by



Jiang He
Jiang He

Signed for and on behalf of
检验检测专用章

Shanghai Lelangtek Testing Technology Co., Ltd.(2nd Floor, Building 4, No.158, Jinfeng Road, Pudong District, Shanghai)

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Address: 2nd Floor, Building 4, No.158, Jinfeng Road, Pudong District, Shanghai, China (201201) Tel: +86 21 5838-0071 Fax: +86 21 5838-0083

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Test Result

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004 on materials and articles intended to come into contact with food

1. Sensorial examination

Test method:

It is examined to the extent of food simulant being used, which comes into contact with the product, undergoes detectable changes in taste and smell.

For this purpose, the food simulant was stored in the product under the below mentioned time and temperature. Afterwards, the food simulant was examined by an appropriate number of tasters with regard to any divergence in smell and taste. Another test sample, which was used as a reference, was treated by the same way except that it had no contact with the product to be tested.

Before testing, the product had been cleaned according to the product's instruction manual or in the absence of such manual, by normal household cleaning.

The test is carried out on the basis of ISO 13302 by paired comparison tests.

Test condition: 70°C, 2h

Test Item	Result
	Whole product
Sensorial analysis (odour)	0
Sensorial analysis (taste)	0

Note: 0= no discernible deviation

1= barely discernible deviation

2= weak deviation

3= clear deviation

4= strong deviation

Limit: 3(failed)

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2. Overall Migration

Refer to: Commission Regulation (EU) No 10/2011 of 14 January 2011 on plastic materials and articles intended to come into contact with food and its amendment

Test method: With reference to EN 1186-1:2002, EN 1186-2:2002, EN 1186-2:2002, EN 1186-14:2002

Food simulants	Result (mg/dm ²)	MDL (mg/dm ²)	Limit (mg/dm ²)
	1 st migration		
95% ethanol(v/v) (40°C, 10days)	8.8	3.0	≤10
95% ethanol(v/v) (100°C, 4h)	<3.0	3.0	≤10

Note:

- (1) mg/dm²=milligram per square decimetre.
- (2) For infant or young children (<3 years), the overall migration limit shall always be 60 mg/kg.
- (3) 95% ethanol is used for fatty food simulants.
- (4) The migration results are based on the first migration.
- (5) Test conditions and simulants were specified by client.

3. Specific migration of heavy metal (19 elements)

Refer to: Commission Regulation (EU) No 10/2011 of 14 January 2011 on plastic materials and articles intended to come into contact with food and its amendment

Test Method: With reference to EN 13130-1:2004 for selection of test method; with reference to ISO 11885:2007 for ICP-MS analysis.

Food simulant and condition: 3% acetic acid, 70°C, 2h

No.	Elements	Result(mg/kg)	MDL (mg/kg)	Limit (mg/kg)
		1 st migration		
1)	Barium(Ba)	ND	0.1	≤1
2)	Copper(Cu)	ND	1	≤5
3)	Lithium(Li)	ND	0.1	≤0.6
4)	Zinc(Zn)	ND	1	≤5
5)	Nickel(Ni)	ND	0.01	≤0.02
6)	Cobalt(Co)	ND	0.03	≤0.05
7)	Iron(Fe)	ND	5	≤48
8)	Manganese(Mn)	ND	0.1	≤0.6
9)	Aluminum(Al)	ND	0.1	≤1.0
10)	Lead(Pb)	ND	0.01	ND

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No.	Elements	Result(mg/kg)	MDL (mg/kg)	Limit (mg/kg)
		1 st migration		
11)	Cadmium(Cd)	ND	0.002	ND
12)	Arsenic(As)	ND	0.01	ND
13)	Mercury(Hg)	ND	0.01	ND
14)	Chromium(Cr)	ND	0.01	ND
15)	Antimony(Sb)	ND	0.01	≤0.04
16)	Europeum(Eu)	ND	0.01	Sum≤0.05
17)	Gadolinium(Gd)	ND	0.01	
18)	Lanthanum(La)	ND	0.01	
19)	Terbium(Tb)	ND	0.01	

Note:

- (1) mg/kg = ppm=parts per million
- (2) ND=Not detected, the test result(s) is/are below the method detection limit(MDL).
- (3) The migration results are based on the first migration.
- (4) Food simulant and condition were specified by client.

4. Phthalate content

Refer to: Commission Regulation (EU) No 10/2011 of 14 January 2011 on plastic materials and articles intended to come into contact with food and its amendment

Test Method: With reference to EN 14372:2004, analysis was performed by GC-MS.

Test Item	Result(%)	MDL(%)	Limit(%)
Bis (2-ethylhexyl) Phthalate (DEHP)	ND	0.005	≤0.1
Benzyl butyl Phthalate (BBP)	ND	0.005	≤0.1
Dibutyl Phthalate (DBP)	ND	0.005	≤0.05
Di-isononyl Phthalate (DINP)	ND	0.005	≤0.1
Di-isodecyl Phthalate (DIDP)	ND	0.005	≤0.1

Note: ND=Not detected, the test results are below the method detection limit(MDL).

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5. Specific migration of Primary aromatic amine

Refer to: Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments

Test Method: With reference to EN 13130-1:2004 for sample preparation, analysis was performed by UV-VIS and LC-MS/ LC-MS/MS analysis.

Food simulants and condition: 3% Acetic acid, 70°C, 2h

Test Item	Result (mg/kg)	MDL (mg/kg)	Limit (mg/kg)
	1 st migration		
4-aminobiphenyl/4-biphenylamine	ND	<0.002	<0.002
o-anisidine/2-methoxyaniline	ND	<0.002	<0.002
Benzidine	ND	<0.002	<0.002
4-Chloro-aniline/ p-chloroaniline	ND	<0.002	<0.002
4-Chloro-o-toluidine	ND	<0.002	<0.002
4,4'-Diaminodiphenylether/ 4,4'-oxydianiline	ND	<0.002	<0.002
4,4'-Methylenedianiline/ 4,4'-diamino-diphenylmethane	ND	<0.002	<0.002
4,4-Methylenedi-o-toluidine/ 3,3'-dimethyl-4,4'-diaminodiphenylmethane	ND	<0.002	<0.002
2-Methoxy-5-methylaniline/ p-cresidine	ND	<0.002	<0.002
4-Methoxy-m-phenylenediamine/2,4-diaminoanisole	ND	<0.002	<0.002
o-Toluidine/ 2-aminotoluene	ND	<0.002	<0.002
2,4-Toluenediamine	ND	<0.002	<0.002
3,3-Dimethylbenzidine	ND	<0.002	<0.002
2,4,5-Trimethylaniline	ND	<0.002	<0.002
m-Phenylenediamine/1,3-phenylenediamine	ND	<0.002	<0.002
2-naphthylamine	ND	<0.002	<0.002
o-aminoazotoluene/ 4-amino-2',3'-dimethylazobenzene/ 4-o-tolylazo-o-toluidine	ND	<0.002	<0.002
5-nitro-o-toluidine	ND	<0.002	<0.002
3,3'-dichlorobenzidine	ND	<0.002	<0.002
3,3'-dimethoxybenzidine/o-dianisidine	ND	<0.002	<0.002

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Test Item	Result (mg/kg)	MDL (mg/kg)	Limit (mg/kg)
	1 st migration		
4,4'-methylene-bis -(2-chloro- aniline) /2,2'-dichloro-4,4'- methylene-dianiline	ND	<0.002	<0.002
4,4'-thiodianiline	ND	<0.002	<0.002
4-amino azobenzene	ND	<0.002	<0.002
Aniline	ND	<0.002	<0.01
2,4-Dimethylaniline/ 2,4-xylidine	ND	<0.002	
2,6-Dimethylaniline/ 2,6-xylidine	ND	<0.002	
m-Phenylenedi amine / 1,3- phenylenediamine	ND	<0.002	
p-Phenylenediamine/1,4-phenylenediamine	ND	<0.002	
2,6-Toluenediamine	ND	<0.002	
1,5-Diaminenaphthalene	ND	<0.002	
Other Primary aromatic amines	ND	<0.002	

Note:

- (1) mg/kg = ppm=parts per million
- (2) ND =Not detected, the test results are below the method detection limit(MDL).
- (3) The migration results are based on the first migration.
- (4) Food simulants and condition were specified by client.

6. Specific migration of Bisphenol A (BPA)

Refer to: Commission Regulation (EU) 2018/213 of 12 February 2018 on the use of bisphenol A in varnishes and coatings intended to come into contact with food and amending Regulation (EU) No 10/2011 as regards the use of that substance in plastic food contact

Test method: with reference to EN 13130-1:2005, analysis was performed by LC-MS/MS

Food simulant and condition: 3% acetic acid, 70°C, 2h

Test Item	Result(mg/kg)	MDL (mg/kg)	Limit (mg/kg)
	1 st migration		
Specific migration of Bisphenol A (BPA)	ND	0.01	≤0.05

Note:

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- (2) ND =Not detected, the test results are below the method detection limit(MDL).

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- (3) The migration results are based on the first migration.
- (4) Food simulants and condition were specified by client.

7. Specific Migration of Acrylonitrile

Refer to: Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments

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

Food simulants and condition: 3% Acetic acid, 70°C, 2h

Test Item	Result (mg/kg)	MDL
	1 st migration	(mg/kg)
Specific Migration of Acrylonitrile	ND	0.01

Note:

- (1) mg/kg = ppm=parts per million
- (2) ND =Not detected, the test results are below the method detection limit(MDL).
- (3) The migration results are based on the first migration.
- (4) Food simulants and condition were specified by client.

8. Specific Migration of Caprolactam

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

Food simulants and condition: 3% Acetic acid, 70°C, 2h

Test Item	Result (mg/kg)	MDL
	1 st migration	(mg/kg)
Specific Migration of Caprolactam	ND	0.4

Note:

- (1) mg/kg = ppm=parts per million
- (2) ND =Not detected, the test results are below the method detection limit(MDL).
- (3) The migration results are based on the first migration.
- (4) Food simulants and condition were specified by client.

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9. Isocyanate

Refer to: Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments

Test Method: With reference to GB 31604.45-2016, analysis was performed by HPLC.

Test Item	CAS No.	Result (mg/kg)	Report Limit (mg/kg)
2,6-Diisocyanatotoluene	91-08-7	ND	0.1
4,4'-Diphenylmethane diisocyanate	101-68-8	ND	0.1
Tolylene-2,4-diisocyanate	584-84-9	ND	0.1
1,5-Naphthalene diisocyanate	3173-72-6	ND	0.1
Phenyl isocyanate	103-71-9	ND	0.1
Isocyanatocyclohexane	3173-53-3	ND	0.1
Hexamethylene Diisocyanate	822-06-0	ND	0.1
Toal	--	ND	--

Note:

- (1) mg/kg = ppm=parts per million
- (2) ND =Not detected, the test results are below the Report Limit.
- (3) As specified by client, the test sample pictures are not included on this report.
- (4) Letter R2, which is added at the end of the report number, shows this report is a revised document for Report No. AL2105290601ENR. Report No. AL2105290601ENR is replaced and invalidated automatically from the approval date of this report. As specified by client/The revised content is as follows:
 - a. On the front page of the report, Model No. was modified.
 - b. On the 3 page of the report, Overall Migration(95% ethanol,100°C,4h) was modified.

Test sample/component description Colored plastic film

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

- (1) The results shown in this report refer only to the lab received sample(s) .
- (2) This report is not affixed to the special seal invalid.
- (3) This report shall not be modified, increased, deleted, copied or intercepted, without the approval of

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(4) If you have any question or concern to this report, please contact us within 10 days, or it will not be accepted out of the time.

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