



中国认可
国际互认
检测
TESTING
CNAS L2774

Test Report

No. TSNAF2201590303

Date: 15 Jul 2022

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Client Name : NINGBO XINQIAO CHEMICAL INDUSTRIAL Co.,Ltd

Client Address : NO98 JINJIRD,BEILUNDISTRICT NINGBO CITY,ZHEJIANG PROVINCE

Sample Name : Expandable polystyrene;E-SB

Manufacturer : NINGBO XINQIAO CHEMICAL INDUSTRIAL Co.,Ltd

Batch No. : /

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

SGS Job No. : O-TJAFL202200993481 - TJ

Internal Reference No. : TJRTZ22060044

Date of Sample Received : 15 Jun 2022

Testing Period : 15 Jun 2022 - 08 Jul 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).

Result Summary :

Test Requested	Conclusion
(EU) No 10/2011 and its amendment (EU) 2020/1245 Regulation-Overall migration	PASS
Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004 –Sensorial examination odour and taste test	PASS
Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004,(EU) No 10/2011 and its amendment (EU) 2020/1245 Regulation-Specific migration of primary aromatic amine*	PASS
(EU) No 10/2011 and its amendment (EU) 2020/1245 Regulation -Specific migration of heavy metal	PASS
French Décret 2007-766 with amendments and French Law 2012-1442 of 24 Dec 2012-Bisphenol A	PASS



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

Reabeca Zhou
Approved Signatory



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Test Result(s) :

Test Part Description :

Specimen No.	SGS Sample ID	Description	Material (claimed by the client)
SN1	TSN22-015903.001	White foam block	Expandable polystyrene

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)

(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;
or EN 1186-5:2002 aqueous food simulants by cell method;

Simulant Used	Time	Temperature	Max. Permissible Limit	Result of 001 Overall migration
3% Acetic acid (W/V) aqueous solution (First migration)	240 hr(s)	40°C	10mg/dm ²	<3.0mg/dm ²
10% Ethanol (V/V) Aqueous Solution (First migration)	240 hr(s)	40°C	10mg/dm ²	<3.0mg/dm ²

Notes :

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

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004 –Sensorial examination odour and taste test

Test Method : With reference to DIN 10955:2004
Test media: Distilled water
No. of panelist: 6



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Test Item(s)	Limit	001
Test time (hr(s))	-	240
Test Temperature (°C)	-	40
Sensorial examination odour	2.5	2.0
Sensorial examination taste	2.5	1.0
Conclusion		PASS

Notes :

- (1) Intensity scale (rounded at 0.5):
 0 – no perceptible difference
 1 – just perceptible difference
 2 – slight difference
 3 – marked difference
 4 – strong difference
 (2) Standard sample: Distilled water
 (3) Method :Simple descriptive test

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2020/1245 Regulation-Specific migration of primary aromatic amine*

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

Sample 001

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

Test Condition : 40 °C 240.0 hr(s)

Test Item(s)	CAS NO.	Max. Permissible Limit	Unit	MDL	Test result
Migration times		-	-	-	1st
Area/Volume		-	dm ² /kg	-	6.0
o-Anisidine(o-ASD)	90-04-0	0.002	mg/kg	0.002	ND
Benzidine (BNZ)	92-87-5	0.002	mg/kg	0.002	ND
4,4'-methylene-bis-(2-chloro-aniline)	101-14-4	0.002	mg/kg	0.002	ND
4,4'-Methylenedianiline(4,4'-MDA)	101-77-9	0.002	mg/kg	0.002	ND
4,4'-Diaminodiphenylether(4,4'-DPE)	101-80-4	0.002	mg/kg	0.002	ND
4-Chloro-Aniline(4-CA)	106-47-8	0.002	mg/kg	0.002	ND
3,3'-Dimethoxybenzidine	119-90-4	0.002	mg/kg	0.002	ND
3,3'-Dimethylbenzidine(3,3'-DMB)	119-93-7	0.002	mg/kg	0.002	ND



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2-Methoxy-5-Methylaniline(2-M-5-MA)	120-71-8	0.002	mg/kg	0.002	ND
2,4,5-Trimethylaniline(2,4,5-TMA)	137-17-7	0.002	mg/kg	0.002	ND
4,4'-thiodianiline	139-65-1	0.002	mg/kg	0.002	ND
4-amino azobenzene	60-09-3	0.002	mg/kg	0.002	ND
4-Methoxy-mphenylenediamine(4-M-mPDA)	615-05-4	0.002	mg/kg	0.002	ND
4,4'-Methylenedi-o-toluidine(4,4'-M DoT)	838-88-0	0.002	mg/kg	0.002	ND
2-naphthylamine	91-59-8	0.002	mg/kg	0.002	ND
3,3'-dichlorobenzidine	91-94-1	0.002	mg/kg	0.002	ND
4-Aminobiphenyl (4-ABP)	92-67-1	0.002	mg/kg	0.002	ND
o-Toluidine(o-T)	95-53-4	0.002	mg/kg	0.002	ND
4-Chloro-o-Toluidine(4-CoT)	95-69-2	0.002	mg/kg	0.002	ND
2,4-Toluenediamine(2,4-TDA)	95-80-7	0.002	mg/kg	0.002	ND
o-aminoazotoluene	97-56-3	0.002	mg/kg	0.002	ND
2-Amino-4-nitrotoluene	99-55-8	0.002	mg/kg	0.002	ND
1,3-phenylenediamine	108-45-2	0.002	mg/kg	0.002	ND
1,3-Diiminoisindoline	3468-11-9	-	mg/kg	0.010	ND
3-Anisidine	536-90-3	-	mg/kg	0.002	ND
2-Amino-1-naphthalenesulfonic acid	81-16-3	-	mg/kg	0.005	ND
2-Ethoxyaniline	94-70-2	-	mg/kg	0.005	ND
5-Chloro-2-methoxyaniline	95-03-4	-	mg/kg	0.005	ND
2-Chloraniline	95-51-2	-	mg/kg	0.010	ND
4-Toluidine	106-49-0	-	mg/kg	0.002	ND
1,4-Phenylenediamine	106-50-3	-	mg/kg	0.002	ND
3-Chloroaniline	108-42-9	-	mg/kg	0.010	ND
3-Toluidine	108-44-1	-	mg/kg	0.002	ND
3-Amino-4-methoxybenzanilide	120-35-4	-	mg/kg	0.002	ND
2-Chloro-4-nitroaniline	121-87-9	-	mg/kg	0.005	ND
4-Chlor-3-methoxyaniline	13726-14-2	-	mg/kg	0.005	ND
4-Ethoxyaniline	156-43-4	-	mg/kg	0.002	ND
3-Amino-4-methylbenzamide	19406-86-1	-	mg/kg	0.002	ND
1,5-Diaminonaphthalene	2243-62-1	-	mg/kg	0.002	ND
4-Aminobenzamide	2835-68-9	-	mg/kg	0.005	ND
Aniline	62-53-3	-	mg/kg	0.002	ND
4-Chlor-2,5-dimethoxyaniline	6358-64-1	-	mg/kg	0.005	ND
2,4,5-Trichloroaniline	636-30-6	-	mg/kg	0.010	ND
5-Amino-6-methylbenzimidazolone	67014-36-2	-	mg/kg	0.005	ND

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2,6- Diaminotoluene	823-40-5	-	mg/kg	0.002	ND
2,6-Dimethylaniline (2,6-DMA)	87-62-7	-	mg/kg	0.002	ND
4-Aminotoluene-3-sulfonic acid	88-44-8	-	mg/kg	0.005	ND
1,2-Phenylendiamine	95-54-5	-	mg/kg	0.002	ND
2,4-Dimethylaniline (2,4-DMA)	95-68-1	-	mg/kg	0.002	ND
5-Chloro-2-methylaniline	95-79-4	-	mg/kg	0.005	ND
2,5-Dichloroaniline	95-82-9	-	mg/kg	0.010	ND
2,4-Dinitroaniline	97-02-9	-	mg/kg	0.005	ND
2-Methoxy-4-nitroaniline	97-52-9	-	mg/kg	0.005	ND
p-Anisidine	104-94-9	-	mg/kg	0.002	ND
Dimethyl aminoterephthalate	5372-81-6	-	mg/kg	0.002	ND
3,4-dichloroaniline	95-76-1	-	mg/kg	0.002	ND
1-Naphthylamine	134-32-7	-	mg/kg	0.002	ND
2-Aminobiphenyl	90-41-5	-	mg/kg	0.002	ND
Butyl Anthranilate	7756-96-9	-	mg/kg	0.002	ND
2,4-Diaminodiphenylmethane	1208-52-2	-	mg/kg	0.002	ND
2-Amino-5-methylbenzoic acid	2941-78-8	-	mg/kg	0.002	ND
Total		0.01	mg/kg	-	ND

Comment

PASS

Notes :

1. The testing item(s) (or standard(s)) and Conclusion marked * was(were) not included in the CNAS accreditation scope of our laboratory and the subcontractor, and the testing result(s) was(were) provided by the SGS Guangzhou chemical lab.

(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 001

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

Test Condition : 40 °C 240 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
Mercury(Hg)	ND	mg/kg	0.01	ND



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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.

French Décret 2007-766 with amendments and French Law 2012-1442 of 24 Dec 2012-Bisphenol A

Test Method : With reference to Part II Section D2 of Testing Methods for Foodstuffs, Implements, Containers and Packaging, Toys, Detergents, JETRO, Japan External Trade Organization, 2009 (Dichloromethane extraction by ultrasonic bath). Analysis was performed by LC/MSMS.

Test Item(s)	Limit	Unit	MDL	001
Bisphenol-A	0.1	mg/kg	0.1	ND

Conclusion

PASS

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule ($w=0$) stated in ILAC-G8:09/2019.



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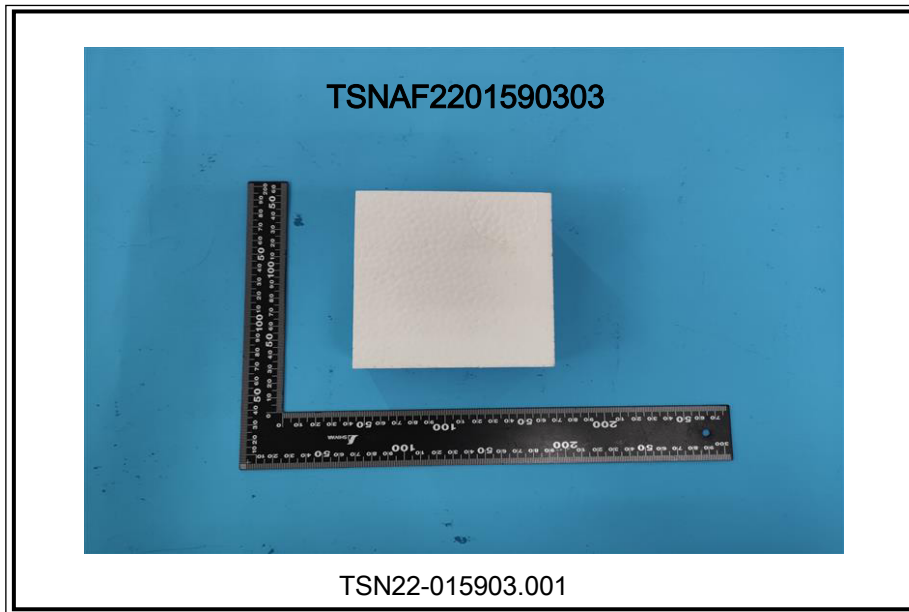
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