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TEST REPORT

Test Report No. : **4380674.55** Version 1

Project No. : 4380674.00

Test Report Date : 2021-09-27

Job No. : 21-01801

Applicant : Flashbay Electronics

Building2, Jixun Industrial Park, Xinjiao, Dong'ao Village, Shatian Town,

Huiyang District, Huizhou City, Guangdong Province, P.R.China

Product Name : Water Bottles

Model No. : Nova Clear

Test Requested : 1. Regulation (EC) No 1935/2004, Regulation (EU) 10/2011, EU

2020/1245 and its amendments

- Overall migration

- Specific migration of heavy metals

- Specific migration of primary aromatic amine

2. Overall migration according to Council Europe Resolution AP (2004) 5

on Silicones Used for Food Contact Applications

Test Method : Please refer to next pages

Sample Received : 2021-09-13

Testing Period : 2021-09-13 to 2021-09-22

Test Results

- following pages -



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Resume:

		Product Name: Water Bottles Model No.: Nova Clear
No.	Parameter	
1.	Overall migration (EU 10/2011)	PASS
2.	Specific migration of heavy metals (EU 10/2011 and EU 2020/1245)	PASS
3.	Specific migration of Primary Aromatic Amine (EU 10/2011 and EU 2020/1245)	PASS
4.	Overall migration (Resolution AP (2004) 5)	PASS

Guangzhou, September 27, 2021 Signed for and on behalf of **DEKRA Testing and Certification (Shanghai) Ltd., Guangzhou branch** Chemical & Mechanical



Devin Ai Approved Signatory

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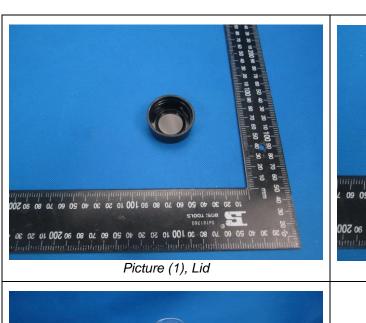


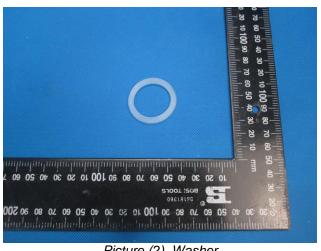
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Sample Descriptions:

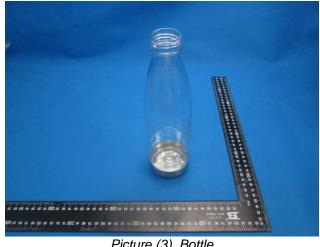
No.	Description(s)	Material(s) (claimed by applicant)
(1)	Lid	PP (Black)
(2)	Washer	Silicone (Transparent)
(3)	Bottle	Tritan (Transparent)

Sample photos





Picture (2), Washer



Picture (3), Bottle

(Blank)



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TEST RESULTS

1. Regulation (EC) No 1935/2004, Regulation (EU) 10/2011, EU 2020//1245 and its amendments

Overall migration

With reference to (EU) No.10/2011 and its amendments, analysis by method EN 1186-3: 2002.

			1.1.14					
Parameter	Test Condition	(1)			(3)			Limit (mg/dm²)
		1 st	2 nd	3 rd	1 st	2 nd	3 rd	(mg/am)
Overall	50%(v/v) Ethanol, 70°C, 2 h	<3	<3	<3	<3	<3	<3	10
migration	3%(w/v) Acetic acid, 70°C, 2h	5.4	<3	<3	<3	<3	<3	10

Remark:

1. mg/dm² = milligram per square decimeter

Specific migration of heavy metals

With reference to (EU) No. 2020/1245 for selection of conditions and test method for specific migration. Analysis was performed by inductively coupled plasma optical emission spectrometer (ICP-OES) and inductively coupled plasma mass spectrometer (ICP-MS).

		Result (mg/kg)						MDI	Limais
Parameter	Test Condition	(1)		(3)			MDL (mg/kg)	Limit	
		1 st	2 nd	3 rd	1 st	2 nd	3 rd	(mg/kg)	(mg/kg)
Barium (Ba)		N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.1	1
Cobalt (Co)		N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.05	0.05
Copper (Cu)		N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.5	5
Iron (Fe)		N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1.0	48
Lithium (Li)		N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.1	0.6
Manganese (Mn)		N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.1	0.6
Zinc (Zn)	3%(w/v) Acetic	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.5	5
Aluminum (Al)	acid, 70ºC, 2h	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.1	1
Nickel (Ni)	70 0, 211	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.02	0.02
Antimony (Sb)		N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.01	0.04
Arsenic (As)		N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.01	N.D.
Cadmium (Cd)		N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.002	N.D.
Chromium (Cr)		N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.01	N.D.
Lead (Pb)		N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.01	N.D.



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		Result (mg/kg)						MDI	1
Parameter	Test Condition	(1)			(3)		MDL (mg/kg)	Limit	
		1 st	2 nd	3 rd	1 st	2 nd	3 rd	(ilig/kg)	(mg/kg)
Mercury (Hg)		N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.01	N.D.
Lanthanum (La)		N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.01	
Europium (Eu)		N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.01	0.05
Gadolinium (Gd)		N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.01	0.05
Terbium (Tb)		N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.01	
Tungsten (W)		N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.01	0.05

Remark:

mg/kg = milligram per kilogram
 N.D. = Not Detected (below MDL)
 MDL = Method Detection Limit

Specific migration of Primary Aromatic Amine (PAA)

With reference to (EU) No. 2020/1245, analysis was performed by Liquid chromatography tandem mass spectrometry.

		Re	esult (mg/k	MDI	Limit		
Parameter	Test Condition	(1)			MDL (mg/kg)	(mg/kg)	
		1 st	2 nd	3 rd	(ilig/kg)	(mg/kg)	
4-Aminobiphenyl		N.D.	N.D.	N.D.	0.002	N.D.	
Benzidine		N.D.	N.D.	N.D.	0.002	N.D.	
4-Chloro-o-Toluidine		N.D.	N.D.	N.D.	0.002	N.D.	
2-Naphthylamine		N.D.	N.D.	N.D.	0.002	N.D.	
o-Aminoazotoluene		N.D.	N.D.	N.D.	0.002	N.D.	
5-Nitro-o-toluidine	3%(w/v) Acetic	N.D.	N.D.	N.D.	0.002	N.D.	
4-Chloro-Aniline		N.D.	N.D.	N.D.	0.002	N.D.	
4-Methoxy-m-phenylenediamine		N.D.	N.D.	N.D.	0.002	N.D.	
4,4'-Methylenedianiline	acid,	N.D.	N.D.	N.D.	0.002	N.D.	
3,3'-Dichlorobenzidine	70ºC, 2h	N.D.	N.D.	N.D.	0.002	N.D.	
3.3'-Dimethoxybenzidine		N.D.	N.D.	N.D.	0.002	N.D.	
3,3'-Dimethylbenzidine		N.D.	N.D.	N.D.	0.002	N.D.	
4,4-Methylenedi-o-toluidine		N.D.	N.D.	N.D.	0.002	N.D.	
2-Methoxy-5-Methylaniline		N.D.	N.D.	N.D.	0.002	N.D.	
4,4'-Methylene bis(2-chloroaniline)		N.D.	N.D.	N.D.	0.002	N.D.	
4,4-Diaminodiphenylether		N.D.	N.D.	N.D.	0.002	N.D.	
4,4'-Thioaniline		N.D.	N.D.	N.D.	0.002	N.D.	



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		Re	esult (mg/k	MDL (mg/kg)	Limit (mg/kg)	
Parameter	Test Condition		(1)			
		1 st	2 nd	3 rd	(mg/kg)	(ilig/Kg)
o-Toluidine		N.D.	N.D.	N.D.	0.002	N.D.
2,4-Toluenediamine		N.D.	N.D.	N.D.	0.002	N.D.
2,4,5-Trimethylaniline		N.D.	N.D.	N.D.	0.002	N.D.
o-Anisidine		N.D.	N.D.	N.D.	0.002	N.D.
4-Aminoazobenzol		N.D.	N.D.	N.D.	0.002	N.D.
Other PAAs		N.D.	N.D.	N.D.	0.002	0.01

		R	esult (mg/k	MDI	Limit	
Parameter	Test Condition	(3)			MDL (mg/kg)	1
		1 st	2 nd	3 rd	(IIIg/kg)	(mg/kg)
4-Aminobiphenyl		N.D.	N.D.	N.D.	0.002	N.D.
Benzidine		N.D.	N.D.	N.D.	0.002	N.D.
4-Chloro-o-Toluidine		N.D.	N.D.	N.D.	0.002	N.D.
2-Naphthylamine		N.D.	N.D.	N.D.	0.002	N.D.
o-Aminoazotoluene		N.D.	N.D.	N.D.	0.002	N.D.
5-Nitro-o-toluidine		N.D.	N.D.	N.D.	0.002	N.D.
4-Chloro-Aniline		N.D.	N.D.	N.D.	0.002	N.D.
4-Methoxy-m-phenylenediamine		N.D.	N.D.	N.D.	0.002	N.D.
4,4'-Methylenedianiline		N.D.	N.D.	N.D.	0.002	N.D.
3,3'-Dichlorobenzidine	3%(w/v) Acetic	N.D.	N.D.	N.D.	0.002	N.D.
3.3'-Dimethoxybenzidine		N.D.	N.D.	N.D.	0.002	N.D.
3,3'-Dimethylbenzidine	acid,	N.D.	N.D.	N.D.	0.002	N.D.
4,4-Methylenedi-o-toluidine	70ºC, 2h	N.D.	N.D.	N.D.	0.002	N.D.
2-Methoxy-5-Methylaniline		N.D.	N.D.	N.D.	0.002	N.D.
4,4'-Methylene bis(2-chloroaniline)		N.D.	N.D.	N.D.	0.002	N.D.
4,4-Diaminodiphenylether		N.D.	N.D.	N.D.	0.002	N.D.
4,4'-Thioaniline		N.D.	N.D.	N.D.	0.002	N.D.
o-Toluidine		N.D.	N.D.	N.D.	0.002	N.D.
2,4-Toluenediamine		N.D.	N.D.	N.D.	0.002	N.D.
2,4,5-Trimethylaniline		N.D.	N.D.	N.D.	0.002	N.D.
o-Anisidine		N.D.	N.D.	N.D.	0.002	N.D.
4-Aminoazobenzol		N.D.	N.D.	N.D.	0.002	N.D.
Other PAAs		N.D.	N.D.	N.D.	0.002	0.01

Remark:

1. mg/kg = milligram per kilogram



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N.D. = Not Detected (below MDL)
 MDL = Method Detection Limit

2. Overall migration according to Council Europe Resolution AP (2004) 5 on Silicones Used for Food Contact Applications

With reference to Resolution AP (2004) 5, analysis by method EN 1186-3: 2002.

			Limit (mg/dm²)		
Parameter	Test Condition				
		1 st	2 nd	3 rd	(mg/am-)
Overall migration	50%(v/v) Ethanol, 70°C, 2 h	<3	<3	<3	10
	3%(w/v) Acetic acid, 70°C, 2h	5.1	<3	<3	10

Remark:

1. mg/dm² = milligram per square decimeter

---End of Report---