

TEST REPORT

TEST REPORT NO : 1003038600**Apr 01,2026****Page :** 1 of 21

Applicant:	Ningbo Dinghua Industrial Limited	Test Date:	Mar 18 – Apr 01, 2026
Address:	216,North keyuan rd, Science & technology zone, Ninghai, Ningbo, China 315600	Received Date:	Mar 18, 2026
Contact Person:	Weeny	Contact Info:	sales2@chinadinghua.com
Sample Description:	Bottle		
Buyer:	Goed Gemerkt B.V.	Country of Origin:	CHINA
Supplier:	Ningbo Dinghua Industrial Limited	Export To:	Europe
Manufacture:	Ningbo Dinghua Industrial Limited		
Item No.:	bottle_uv-bot		

***** End of Page *****

For and on behalf of
UL VS Shanghai Limited

Kuki Zhu - Technical Manager

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Test Item	Conclusion
Child care articles - Drinking equipment – Safety requirements and test methods [EN 14350:2020+A1:2023]	PASS
Migration of Certain Elements [EN 14350:2020+A1:2023 Section 8.6]	PASS
Colour Fastness [EN 14350:2020+A1:2023 Section 8.8]	PASS
Volatile Compound content [EN 14350:2020+A1:2023 Section 8.4]	PASS
Formaldehyde Release [EN 14350:2020+A1:2023 Section 8.7]	PASS
Overall Migration Test for Food Contact Plastics [Regulation (EC) No 1935/2004 & EU No 10/2011 with Amendments]	PASS
Overall Migration Test for Food Contact Silicone [Regulation (EC) No 1935/2004 & Council Of Europe Resolution AP(2004)5]	PASS
Specific Migration of Heavy Metals for Food Contact Plastics [Regulation (EC) No 1935/2004 & EU No 10/2011 with Amendments]	PASS
Specific Migration of Primary Aromatic Amines (PAA) [Regulation (EC) No 1935/2004 & EU No 10/2011 with Amendments]	PASS
Specific Migration of Bisphenol A [Regulation (EC) No 1935/2004 & EU No 10/2011 with Amendments]	PASS
Total Bisphenol - A [Regulation (EC) No 1935/2004 & Law No.2010-729, As Amended By Law No. 2012-1442 of December 24, 2012]	PASS
Specific Migration of Acrylonitrile for Food Contact ABS/AS [Regulation (EC) No 1935/2004 & EU No 10/2011 with Amendments]	PASS
Specific Migration of 1,3-Butadiene for Food Contact Acrylonitrile-Butadiene-Styrene Copolymer (ABS) [Regulation (EC) No 1935/2004 & EU No 10/2011 with Amendments]	PASS
1,3-Butadiene for Food Contact Acrylonitrile-Butadiene-Styrene Copolymer (ABS) [Regulation (EC) No 1935/2004 & EU No 10/2011 with Amendments]	PASS
Volatile Organic Substances for Food Contact Silicone Rubber [Regulation (EC) No 1935/2004 & French Arrêté du 25/11/1992]	PASS
Remaining Peroxides for Food Contact Silicone Rubber [Regulation (EC) No 1935/2004 & French Arrêté du 25/11/1992]	PASS
Specific Migration of Organotin (In Terms of Tin) for Food Contact Silicone Rubber [Regulation (EC) No 1935/2004 & French Arrêté du 25/11/1992]	PASS
Polycyclic Aromatic Hydrocarbons (PAHs) [REACH Annex XVII entry 50]	PASS
Phthalates according To Regulation (EC) No. 1907/2006 on REACH Annex XVII Item No 51/52	PASS
Total Cadmium Content [Regulation (EC) 1907/2006, REACH Annex XVII No.23]	PASS
Total Lead Content Test [Regulation (EC) 1907/2006, REACH Annex XVII No.63]	PASS
Nitrosamines and N-Nitrosatable Substances for Food Contact Rubber [EN 14350:2020+A1:2023 Section 8.5]*	PASS
Remark: 1. The results relate only to the samples tested. 2. Selected test(s) as requested by applicant. 3. *: This test was subcontracted.	

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Sample	Product
001	TRANSLUCENT BLUE TRITAN BODY
002	BLUE ABS LID
003	TRANSPARENT PE STRAW
004	TRANSPARENT SILICONE NOZZLE
005	BOTTLE THE WHOLE SAMPLE
006	SILVER METAL PIN

The sample surface / volume ratio used for food item evaluation is: 6.0 dm²/kg.

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1. **Child care articles - Drinking equipment – Safety requirements and test methods [EN 14350:2020+A1:2023]**
Excluding 9,10(client's requirement)
Tested age grade: 3+
Labeled age grade: Not Provided

Clause	Test Items	Assessment
7	Construction and mechanical requirements and tests	
7.2	Decoration, inscription and decals	Not Applicable
7.3	Visual and tactile examination	Pass
7.4	Small parts	Pass
7.5	Additional requirements for sealing discs	Pass
7.6	Requirements and tests for containers	
7.6.1	Volumetric labelling requirements	Not Applicable
7.6.2	Volumetric accuracy	Not Applicable
7.6.3	Print adhesion of graduations	Not Applicable
7.6.4	Thermal shock	Pass
7.7	Requirements and tests for drinking accessories	
7.7.1	Tear resistance test	Pass
7.7.2	Push-pull valve	Pass
7.8	Protective covers	
7.8.1	Size of detachable protective cover	Pass
7.8.2	Size of permanent protective cover	Not Applicable
7.8.3	Security of permanent protective cover	Pass
7.9	Handles and clips	Not Applicable
7.10	Finger traps	Not Applicable
7.11	Protruding parts	
7.11.1	Maximum length	Not Applicable
7.11.2	Flexibility	Not Applicable
7.11.3	Security/retention test of protruding parts	Not Applicable
7.12	Cords or loops	Not Applicable
8	Chemical requirements and test methods	

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2. Migration of Certain Elements [EN 14350:2020+A1:2023 Section 8.6]

Test Method: EN 14350:2020+A1:2023 Section 8.6 & EN 71-3:2019+A2:2024

Elements	Limits	001	002	003	004
Aluminum	2,250	<10.0	<10.0	<10.0	<10.0
Antimony	45	<5.0	<5.0	<5.0	<5.0
Arsenic	3.8	<0.5	<0.5	<0.5	<0.5
Barium	1,500	<10.0	<10.0	<10.0	<10.0
Boron	1,200	<10.0	<10.0	<10.0	<10.0
Cadmium	1.3	<0.5	<0.5	<0.5	<0.5
Chromium ²	---	<5.0	<5.0	<5.0	<5.0
(Chromium III)	37.5	<5.0	<5.0	<5.0	<5.0
(Chromium VI)	0.02	<0.02	<0.02	<0.02	<0.02
Cobalt	10.5	<1.0	<1.0	<1.0	<1.0
Copper	622.5	<10.0	<10.0	<10.0	<10.0
Lead	2.0	<0.5	<0.5	<0.5	<0.5
Manganese	1,200	<10.0	<10.0	<10.0	<10.0
Mercury	7.5	<2.0	<2.0	<2.0	<2.0
Nickel	75	<10.0	<10.0	<10.0	<10.0
Selenium	37.5	<5.0	<5.0	<5.0	<5.0
Strontium	4,500	<10.0	<10.0	<10.0	<10.0
Tin	15,000	<0.5	<0.5	<0.5	<0.5
Organic Tin ³	0.9	<0.9	<0.9	<0.9	<0.9
Zinc	3,750	<10.0	<10.0	<10.0	<10.0
Sample weight between 10 mg and 100 mg		-	-	-	-
Rating		PASS	PASS	PASS	PASS

Remark

- ***: Result is considered "Pass" if it is below EN 71-3 limit (0.005mg/kg) according to EN 14350:2020+A1:2023 section 8.6.1.
- "<" means less than; ">" means greater than; "mg/kg" means milligrams per kilogram

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3. Colour Fastness [EN 14350:2020+A1:2023 Section 8.8]

Test Method: EN 14350:2020+A1:2023 Section 8.8

Sample	Result		Rating
	3% Acetic Acid	Coconut fat	
001	No	No	PASS
002	No	No	PASS
Remark Yes: Visible difference when compared to the blank No: No visible difference when compared to the blank			

4. Volatile Compound content [EN 14350:2020+A1:2023 Section 8.4]

Test Method : EN 14350:2020+A1:2023 Section 8.4

Sample	VOC content, %(w/w)	Requirement, %(w/w)	Rating
004	0.31	0.5	PASS
“<” means less than; “%” Means “Percentage by Weight”			

5. Formaldehyde Release [EN 14350:2020+A1:2023 Section 8.7]

Test Method : EN 14350:2020+A1:2023 Section 8.7

Sample	Formaldehyde(mg/L)	Requirement(mg/L)	Rating
004	<0.1	0.5	PASS
“mg/L” means “milligrams per Liter”, “<” means “less than”			

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6. Overall Migration Test for Food Contact Plastics [Regulation (EC) No 1935/2004 & EU No 10/2011 with Amendments]

Test Method: EN 1186

Detection Limit: 3.0mg/dm²

Sample	Simulant(s) /Test condition	1 st Contact Result (mg/dm ²)	2 nd Contact Result (mg/dm ²)	3 rd Contact Result (mg/dm ²)	Requirement for 3 rd Contact (mg/dm ²)	Stability [#]	Rating
001	B (3% Acetic acid) /100°C, 2hours	<3	<3	<3	Max.10	Complies	PASS
	D ₁ (50% Ethanol) /100°C, 2hours	<3	<3	<3	Max.10	Complies	PASS
002	B (3% Acetic acid) /100°C, 2hours	<3	<3	<3	Max.10	Complies	PASS
	D ₁ (50% Ethanol) /100°C, 2hours	<3	<3	<3	Max.10	Complies	PASS
003	B (3% Acetic acid) /100°C, 2hours	<3	<3	<3	Max.10	Complies	PASS
	D ₁ (50% Ethanol) /100°C, 2hours	<3	<3	<3	Max.10	Complies	PASS

Remarks:

- "<" means less than; "mg/dm²" means milligrams per square decimeter.
- [#]The migration in the 2nd contact shall not exceed the value observed in the 1st contact, and the migration in the 3rd contact shall not exceed the value observed in the 2nd contact.

7. Overall Migration Test for Food Contact Silicone [Regulation (EC) No 1935/2004 & Council Of Europe Resolution AP(2004)5]

Test Method: EN 1186:2002

Sample	Simulant	Test Condition	Test Result (mg/dm ²)	Detection Limit (mg/dm ²)	Requirement (mg/dm ²) Max.	Rating
004	B (3% Acetic acid)	100°C, 2hours third contact	<3.0	3.0	10	PASS
	D ₁ (50% Ethanol)	100°C, 2hours third contact	<3.0	3.0	10	PASS

"<" means less than; "mg/dm²" means milligrams per square decimeter

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TEST REPORT

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Apr 01,2026

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8. Specific Migration of Heavy Metals for Food Contact Plastics [Regulation (EC) No 1935/2004 & EU No 10/2011 with Amendments]

Test Method: Extract According to EN 13130-1:2004; Followed by Analysis Using ICP-MS

Simulant: 3% acetic acid

Test Condition: 100°C, 2hours

Sample	Test Item(s)	1 st Contact Result (mg/kg)	2 nd Contact Result (mg/kg)	3 rd Contact Result (mg/kg)	Detection Limit (mg/kg)	Requirement for 3 rd Contact (mg/kg) Max.	Stability [#]	Rating
001	Aluminium(Al)	<0.2	<0.2	<0.2	0.2	1	Complies	PASS
	Barium(Ba)	<0.2	<0.2	<0.2	0.2	1	Complies	PASS
	Cobalt(Co)	<0.01	<0.01	<0.01	0.01	0.05	Complies	PASS
	Copper(Cu)	<1	<1	<1	1	5	Complies	PASS
	Iron(Fe)	<10	<10	<10	10	48	Complies	PASS
	Lithium(Li)	<0.1	<0.1	<0.1	0.1	0.6	Complies	PASS
	Manganese(Mn)	<0.1	<0.1	<0.1	0.1	0.6	Complies	PASS
	Nickel(Ni)	<0.01	<0.01	<0.01	0.01	0.02	Complies	PASS
	Zinc(Zn)	<0.5	<0.5	<0.5	0.5	5	Complies	PASS
	Antimony(Sb)	<0.01	<0.01	<0.01	0.01	0.04	Complies	PASS
	Arsenic(As)	<0.003	<0.003	<0.003	0.003	ND (0.01)	Complies	PASS
	Cadmium(Cd)	<0.001	<0.001	<0.001	0.001	ND (0.002)	Complies	PASS
	Chromium(Cr)	<0.003	<0.003	<0.003	0.003	ND (0.01)	Complies	PASS
	Europium(Eu)	<0.01	<0.01	<0.01	0.01	0.05	Complies	PASS
	Gadolinium(Gd)	<0.01	<0.01	<0.01	0.01	0.05	Complies	PASS
	Lanthanum(La)	<0.01	<0.01	<0.01	0.01	0.05	Complies	PASS
	Lead(Pb)	<0.003	<0.003	<0.003	0.003	ND (0.01)	Complies	PASS
	Mercury(Hg)	<0.003	<0.003	<0.003	0.003	ND (0.01)	Complies	PASS
	Terbium(Tb)	<0.01	<0.01	<0.01	0.01	0.05	Complies	PASS
	Overall migration*	<3	<3	<3	3	60	Complies	PASS

Remarks:

- "<" means less than; "mg/kg" means milligrams per kilogram
- [#]The migration in the 2nd contact shall not exceed the value observed in the 1st contact, and the migration in the 3rd contact shall not exceed the value observed in the 2nd contact.
- ^{*}"Overall Migration" means the overall migration of Ammonium, Calcium, Potassium, Magnesium and Sodium that are subjected to limitation (60 mg/kg) due to Article 11(3) and Article 12 of the Regulation EU No 10/2011.

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Specific Migration of Heavy Metals for Food Contact Plastics [Regulation (EC) No 1935/2004 & EU No 10/2011 with Amendments]

Test Method: Extract According to EN 13130-1:2004; Followed by Analysis Using ICP-MS

Simulant: 3% acetic acid

Test Condition: 100°C, 2hours

Sample	Test Item(s)	1 st Contact Result (mg/kg)	2 nd Contact Result (mg/kg)	3 rd Contact Result (mg/kg)	Detection Limit (mg/kg)	Requirement for 3 rd Contact (mg/kg) Max.	Stability [#]	Rating
002	Aluminium(Al)	<0.2	<0.2	<0.2	0.2	1	Complies	PASS
	Barium(Ba)	<0.2	<0.2	<0.2	0.2	1	Complies	PASS
	Cobalt(Co)	<0.01	<0.01	<0.01	0.01	0.05	Complies	PASS
	Copper(Cu)	<1	<1	<1	1	5	Complies	PASS
	Iron(Fe)	<10	<10	<10	10	48	Complies	PASS
	Lithium(Li)	<0.1	<0.1	<0.1	0.1	0.6	Complies	PASS
	Manganese(Mn)	<0.1	<0.1	<0.1	0.1	0.6	Complies	PASS
	Nickel(Ni)	<0.01	<0.01	<0.01	0.01	0.02	Complies	PASS
	Zinc(Zn)	<0.5	<0.5	<0.5	0.5	5	Complies	PASS
	Antimony(Sb)	<0.01	<0.01	<0.01	0.01	0.04	Complies	PASS
	Arsenic(As)	<0.003	<0.003	<0.003	0.003	ND (0.01)	Complies	PASS
	Cadmium(Cd)	<0.001	<0.001	<0.001	0.001	ND (0.002)	Complies	PASS
	Chromium(Cr)	<0.003	<0.003	<0.003	0.003	ND (0.01)	Complies	PASS
	Europium(Eu)	<0.01	<0.01	<0.01	0.01	0.05	Complies	PASS
	Gadolinium(Gd)	<0.01	<0.01	<0.01	0.01	0.05	Complies	PASS
	Lanthanum(La)	<0.01	<0.01	<0.01	0.01	0.05	Complies	PASS
	Lead(Pb)	<0.003	<0.003	<0.003	0.003	ND (0.01)	Complies	PASS
	Mercury(Hg)	<0.003	<0.003	<0.003	0.003	ND (0.01)	Complies	PASS
	Terbium(Tb)	<0.01	<0.01	<0.01	0.01	0.05	Complies	PASS
	Overall migration*	<3	<3	<3	3	60	Complies	PASS

Remarks:

- "<" means less than; "mg/kg" means milligrams per kilogram
- [#]The migration in the 2nd contact shall not exceed the value observed in the 1st contact, and the migration in the 3rd contact shall not exceed the value observed in the 2nd contact.
- * "Overall Migration" means the overall migration of Ammonium, Calcium, Potassium, Magnesium and Sodium that are subjected to limitation (60 mg/kg) due to Article 11(3) and Article 12 of the Regulation EU No 10/2011.

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Specific Migration of Heavy Metals for Food Contact Plastics [Regulation (EC) No 1935/2004 & EU No 10/2011 with Amendments]

Test Method: Extract According to EN 13130-1:2004; Followed by Analysis Using ICP-MS

Simulant: 3% acetic acid

Test Condition: 100°C, 2hours

Sample	Test Item(s)	1 st Contact Result (mg/kg)	2 nd Contact Result (mg/kg)	3 rd Contact Result (mg/kg)	Detection Limit (mg/kg)	Requirement for 3 rd Contact (mg/kg) Max.	Stability [#]	Rating
003	Aluminium(Al)	<0.2	<0.2	<0.2	0.2	1	Complies	PASS
	Barium(Ba)	<0.2	<0.2	<0.2	0.2	1	Complies	PASS
	Cobalt(Co)	<0.01	<0.01	<0.01	0.01	0.05	Complies	PASS
	Copper(Cu)	<1	<1	<1	1	5	Complies	PASS
	Iron(Fe)	<10	<10	<10	10	48	Complies	PASS
	Lithium(Li)	<0.1	<0.1	<0.1	0.1	0.6	Complies	PASS
	Manganese(Mn)	<0.1	<0.1	<0.1	0.1	0.6	Complies	PASS
	Nickel(Ni)	<0.01	<0.01	<0.01	0.01	0.02	Complies	PASS
	Zinc(Zn)	<0.5	<0.5	<0.5	0.5	5	Complies	PASS
	Antimony(Sb)	<0.01	<0.01	<0.01	0.01	0.04	Complies	PASS
	Arsenic(As)	<0.003	<0.003	<0.003	0.003	ND (0.01)	Complies	PASS
	Cadmium(Cd)	<0.001	<0.001	<0.001	0.001	ND (0.002)	Complies	PASS
	Chromium(Cr)	<0.003	<0.003	<0.003	0.003	ND (0.01)	Complies	PASS
	Europium(Eu)	<0.01	<0.01	<0.01	0.01	0.05	Complies	PASS
	Gadolinium(Gd)	<0.01	<0.01	<0.01	0.01	0.05	Complies	PASS
	Lanthanum(La)	<0.01	<0.01	<0.01	0.01	0.05	Complies	PASS
	Lead(Pb)	<0.003	<0.003	<0.003	0.003	ND (0.01)	Complies	PASS
	Mercury(Hg)	<0.003	<0.003	<0.003	0.003	ND (0.01)	Complies	PASS
	Terbium(Tb)	<0.01	<0.01	<0.01	0.01	0.05	Complies	PASS
	Overall migration*	<3	<3	<3	3	60	Complies	PASS

Remarks:

- "<" means less than; "mg/kg" means milligrams per kilogram
- [#]The migration in the 2nd contact shall not exceed the value observed in the 1st contact, and the migration in the 3rd contact shall not exceed the value observed in the 2nd contact.
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TEST REPORT

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9. Specific Migration of Primary Aromatic Amines (PAA) [Regulation (EC) No 1935/2004 & EU No 10/2011 with Amendments]

Test Method: EUR 24815 EN 2011, test with HPLC-MS-MS

Simulant: 3% acetic acid

Test Condition: 100°C, 2hours

Sample	Test Item(s)	Result (mg/kg)	Detection Limit (mg/kg)	Requirement (mg/kg)	Rating
001	4-Aminobiphenyl (4-ABP)	<0.002	0.002	Max.0.002	PASS
	o-Anisidine (o-ASD)	<0.002	0.002	Max.0.002	PASS
	Benzidine (BNZ)	<0.002	0.002	Max.0.002	PASS
	4-Chloro-Aniline (4-CA)	<0.002	0.002	Max.0.002	PASS
	4-Chloro-o-Toluidine (4-CoT)	<0.002	0.002	Max.0.002	PASS
	4,4-Diaminodiphenylether (4,4'-DPE)	<0.002	0.002	Max.0.002	PASS
	4,4'-Methylenedianiline (4,4'-MDA)	<0.002	0.002	Max.0.002	PASS
	4,4-Methylenedi-o-toluidine (4,4'-MDoT)	<0.002	0.002	Max.0.002	PASS
	2-Methoxy-5-Methylaniline (2-M-5-MA)	<0.002	0.002	Max.0.002	PASS
	4-Methoxy-m-phenylenediamine (4-M-mPDA)	<0.002	0.002	Max.0.002	PASS
	o-Toluidine (o-T)	<0.002	0.002	Max.0.002	PASS
	2,4-Toluenediamine (2,4-TDA)	<0.002	0.002	Max.0.002	PASS
	3,3-Dimethylbenzidine (3,3-DMB)	<0.002	0.002	Max.0.002	PASS
	2,4,5-Trimethylaniline (2,4,5-TMA)	<0.002	0.002	Max.0.002	PASS
	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	<0.002	0.002	Max.0.002	PASS
	3,3'-dimethoxybenzidine o-dianisidine	<0.002	0.002	Max.0.002	PASS
	4,4'-thiodianiline	<0.002	0.002	Max.0.002	PASS
	4-Aminoazobenzene	<0.002	0.002	Max.0.002	PASS
	2-naphthylamine	<0.002	0.002	Max.0.002	PASS
	3,3'-dichlorobenzidine 3,3'-dichlorobiphenyl-4,4'-ylenediamine	<0.002	0.002	Max.0.002	PASS
	o-aminoazotoluene,4-amino-2',3-dimethylazobenzene,4-o-tolylazo-o-toluidine	<0.002	0.002	Max.0.002	PASS
	5-nitro-o-toluidine	<0.002	0.002	Max.0.002	PASS
	Aniline (ANL)	<0.002	0.002	--	--
	2,4-Dimethylaniline (2,4-DMA)	<0.002	0.002	--	--
	2,6-Dimethylaniline (2,6-DMA)	<0.002	0.002	--	--
	m-Phenylenediamine (m-PDA)	<0.002	0.002	--	--
	2,6-Toluenediamine (2,6-TDA)	<0.002	0.002	--	--
	Sum	<0.01	0.01	Max.0.01	PASS

<" means less than; "mg/kg" means milligrams per kilogram

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Specific Migration of Primary Aromatic Amines (PAA) [Regulation (EC) No 1935/2004 & EU No 10/2011 with Amendments]

Test Method: EUR 24815 EN 2011, test with HPLC-MS-MS

Simulant: 3% acetic acid

Test Condition: 100°C, 2hours

Sample	Test Item(s)	Result (mg/kg)	Detection Limit (mg/kg)	Requirement (mg/kg)	Rating
002	4-Aminobiphenyl (4-ABP)	<0.002	0.002	Max.0.002	PASS
	o-Anisidine (o-ASD)	<0.002	0.002	Max.0.002	PASS
	Benzidine (BNZ)	<0.002	0.002	Max.0.002	PASS
	4-Chloro-Aniline (4-CA)	<0.002	0.002	Max.0.002	PASS
	4-Chloro-o-Toluidine (4-CoT)	<0.002	0.002	Max.0.002	PASS
	4,4-Diaminodiphenylether (4,4'-DPE)	<0.002	0.002	Max.0.002	PASS
	4,4'-Methylenedianiline (4,4'-MDA)	<0.002	0.002	Max.0.002	PASS
	4,4-Methylenedi-o-toluidine (4,4'-MDoT)	<0.002	0.002	Max.0.002	PASS
	2-Methoxy-5-Methylaniline (2-M-5-MA)	<0.002	0.002	Max.0.002	PASS
	4-Methoxy-m-phenylenediamine (4-M-mPDA)	<0.002	0.002	Max.0.002	PASS
	o-Toluidine (o-T)	<0.002	0.002	Max.0.002	PASS
	2,4-Toluenediamine (2,4-TDA)	<0.002	0.002	Max.0.002	PASS
	3,3-Dimethylbenzidine (3,3-DMB)	<0.002	0.002	Max.0.002	PASS
	2,4,5-Trimethylaniline (2,4,5-TMA)	<0.002	0.002	Max.0.002	PASS
	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	<0.002	0.002	Max.0.002	PASS
	3,3'-dimethoxybenzidine o-dianisidine	<0.002	0.002	Max.0.002	PASS
	4,4'-thiodianiline	<0.002	0.002	Max.0.002	PASS
	4-Aminoazobenzene	<0.002	0.002	Max.0.002	PASS
	2-naphthylamine	<0.002	0.002	Max.0.002	PASS
	3,3'-dichlorobenzidine 3,3'-dichlorobiphenyl-4,4'-ylenediamine	<0.002	0.002	Max.0.002	PASS
	o-aminoazotoluene,4-amino-2',3-dimethylazobenzene,4-o-tolylazo-o-toluidine	<0.002	0.002	Max.0.002	PASS
	5-nitro-o-toluidine	<0.002	0.002	Max.0.002	PASS
	Aniline (ANL)	<0.002	0.002	--	--
	2,4-Dimethylaniline (2,4-DMA)	<0.002	0.002	--	--
	2,6-Dimethylaniline (2,6-DMA)	<0.002	0.002	--	--
	m-Phenylenediamine (m-PDA)	<0.002	0.002	--	--
	2,6-Toluenediamine (2,6-TDA)	<0.002	0.002	--	--
	Sum	<0.01	0.01	Max.0.01	PASS

<" means less than; "mg/kg" means milligrams per kilogram

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Specific Migration of Primary Aromatic Amines (PAA) [Regulation (EC) No 1935/2004 & EU No 10/2011 with Amendments]

Test Method: EUR 24815 EN 2011, test with HPLC-MS-MS

Simulant: 3% acetic acid

Test Condition: 100°C, 2hours

Sample	Test Item(s)	Result (mg/kg)	Detection Limit (mg/kg)	Requirement (mg/kg)	Rating
003	4-Aminobiphenyl (4-ABP)	<0.002	0.002	Max.0.002	PASS
	o-Anisidine (o-ASD)	<0.002	0.002	Max.0.002	PASS
	Benzidine (BNZ)	<0.002	0.002	Max.0.002	PASS
	4-Chloro-Aniline (4-CA)	<0.002	0.002	Max.0.002	PASS
	4-Chloro-o-Toluidine (4-CoT)	<0.002	0.002	Max.0.002	PASS
	4,4-Diaminodiphenylether (4,4'-DPE)	<0.002	0.002	Max.0.002	PASS
	4,4'-Methylenedianiline (4,4'-MDA)	<0.002	0.002	Max.0.002	PASS
	4,4-Methylenedi-o-toluidine (4,4'-MDoT)	<0.002	0.002	Max.0.002	PASS
	2-Methoxy-5-Methylaniline (2-M-5-MA)	<0.002	0.002	Max.0.002	PASS
	4-Methoxy-m-phenylenediamine (4-M-mPDA)	<0.002	0.002	Max.0.002	PASS
	o-Toluidine (o-T)	<0.002	0.002	Max.0.002	PASS
	2,4-Toluenediamine (2,4-TDA)	<0.002	0.002	Max.0.002	PASS
	3,3-Dimethylbenzidine (3,3-DMB)	<0.002	0.002	Max.0.002	PASS
	2,4,5-Trimethylaniline (2,4,5-TMA)	<0.002	0.002	Max.0.002	PASS
	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	<0.002	0.002	Max.0.002	PASS
	3,3'-dimethoxybenzidine o-dianisidine	<0.002	0.002	Max.0.002	PASS
	4,4'-thiodianiline	<0.002	0.002	Max.0.002	PASS
	4-Aminoazobenzene	<0.002	0.002	Max.0.002	PASS
	2-naphthylamine	<0.002	0.002	Max.0.002	PASS
	3,3'-dichlorobenzidine 3,3'-dichlorobiphenyl-4,4'-ylenediamine	<0.002	0.002	Max.0.002	PASS
	o-aminoazotoluene,4-amino-2',3-dimethylazobenzene,4-o-tolylazo-o-toluidine	<0.002	0.002	Max.0.002	PASS
	5-nitro-o-toluidine	<0.002	0.002	Max.0.002	PASS
	Aniline (ANL)	<0.002	0.002	--	--
	2,4-Dimethylaniline (2,4-DMA)	<0.002	0.002	--	--
	2,6-Dimethylaniline (2,6-DMA)	<0.002	0.002	--	--
	m-Phenylenediamine (m-PDA)	<0.002	0.002	--	--
	2,6-Toluenediamine (2,6-TDA)	<0.002	0.002	--	--
	Sum	<0.01	0.01	Max.0.01	PASS

<" means less than; "mg/kg" means milligrams per kilogram

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10. Specific Migration of Bisphenol A [Regulation (EC) No 1935/2004 & EU No 10/2011 with Amendments]

Test Method: Extract According to EN 13130-1:2004; And Analysed by BS DD CEN-TS 13130-13:2005

Sample	Test Item(s)	1 st Contact Result (mg/kg)	2 nd Contact Result (mg/kg)	3 rd Contact Result (mg/kg)	Detection Limit (mg/kg)	Requirement for 3 rd Contact (mg/kg)	Stability [#]	Rating
001	B (3% Acetic acid) / 100°C, 2hours	<0.05	<0.05	<0.05	0.05	Max.0.05	Complies	PASS
002	B (3% Acetic acid) / 100°C, 2hours	<0.05	<0.05	<0.05	0.05	Max.0.05	Complies	PASS
003	B (3% Acetic acid) / 100°C, 2hours	<0.05	<0.05	<0.05	0.05	Max.0.05	Complies	PASS
004	B (3% Acetic acid) / 100°C, 2hours	<0.05	<0.05	<0.05	0.05	Max.0.05	Complies	PASS
Remarks : 1. “<” means less than; “mg/kg” means milligrams per kilogram 2. [#] The migration in the 2 nd contact shall not exceed the value observed in the 1 st contact, and the migration in the 3 rd contact shall not exceed the value observed in the 2 nd contact.								

11. Total Bisphenol - A [Regulation (EC) No 1935/2004 & Law No.2010-729, As Amended By Law No. 2012-1442 of December 24, 2012]

Test Method: Total Bisphenol - A (BPA) content was determined using Liquid Chromatography-Tandem Mass Spectrometry (LC-MS/MS) following solvent dissolution/extraction.

Sample	Test Result (mg/kg)	Detection Limit (mg/kg)	Requirement (mg/kg)	Rating
001	<0.1	0.1	Not Detected	PASS
002	<0.1	0.1	Not Detected	PASS
003	<0.1	0.1	Not Detected	PASS
004	<0.1	0.1	Not Detected	PASS
“<” means less than; “mg/kg” means milligrams per kilogram				

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12. Specific Migration of Acrylonitrile for Food Contact ABS/AS [Regulation (EC) No 1935/2004 & EU No 10/2011 with Amendments]

Test Method: Extract According to EN 13130-1:2004 ; and Analysed by EN 13130-3:2004

Sample	Test Item(s)	1 st Contact Result (mg/kg)	2 nd Contact Result (mg/kg)	3 rd Contact Result (mg/kg)	Detection Limit (mg/kg)	Requirement for 3 rd Contact (mg/kg) Max.	Stability [#]	Rating
002	B (3% Acetic acid) / 100°C, 2hours	<0.01	<0.01	<0.01	0.01	ND(0.01)	Complies	PASS
Remarks : 1. "<" means less than; "mg/kg" means milligrams per kilogram 2. [#] The migration in the 2 nd contact shall not exceed the value observed in the 1 st contact, and the migration in the 3 rd contact shall not exceed the value observed in the 2 nd contact.								

13. Specific Migration of 1,3-Butadiene for Food Contact Acrylonitrile-Butadiene-Styrene Copolymer (ABS) [Regulation (EC) No 1935/2004 & EU No 10/2011 with Amendments]

Test Method: Extract According to EN 13130-1:2004 ; and Analysed by EN13130-15:2005

Sample	Test Item(s)	1 st Contact Result (mg/kg)	2 nd Contact Result (mg/kg)	3 rd Contact Result (mg/kg)	Detection Limit (mg/kg)	Requirement for 3 rd Contact (mg/kg) Max.	Stability [#]	Rating
002	B (3% Acetic acid) / 100°C, 2hours	<0.01	<0.01	<0.01	0.01	ND(0.01)	Complies	PASS
Remarks : 1. "<" means less than; "mg/kg" means milligrams per kilogram 2. [#] The migration in the 2 nd contact shall not exceed the value observed in the 1 st contact, and the migration in the 3 rd contact shall not exceed the value observed in the 2 nd contact.								

14. 1,3-Butadiene for Food Contact Acrylonitrile-Butadiene-Styrene Copolymer (ABS) [Regulation (EC) No 1935/2004 & EU No 10/2011 with Amendments]

Test Method: EN13130-4:2004

Sample	Test Result (mg/kg)	Detection Limit (mg/kg)	Requirement (mg/kg)	Rating
002	<0.5	0.5	Max.1	PASS
"<" means less than; "mg/kg" means milligrams per kilogram				

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15. Volatile Organic Substances for Food Contact Silicone Rubber [Regulation (EC) No 1935/2004 & French Arrêté du 25/11/1992]

Test Method: French Arrêté du 25/11/1992

<u>Sample</u>	<u>Test Condition</u>	<u>Test Result</u>	<u>Detection Limit</u>	<u>Requirement</u>	<u>Rating</u>
004	200°C, 4hours	0.26%	0.1%	Max.0.5%	PASS

"<" means less than; "%" Means "Percentage by Weight"

16. Remaining Peroxides for Food Contact Silicone Rubber [Regulation (EC) No 1935/2004 & French Arrêté du 25/11/1992]

Test Method: According to European Pharmacopoeia 2005 Section 2.5.5 method B

<u>Sample</u>	<u>Test Result</u>	<u>Requirement</u>	<u>Rating</u>
004	None Detected	None Detected	PASS

Note: Method Detection Limit is 10meq/kg

17. Specific Migration of Organotin (In Terms of Tin) for Food Contact Silicone Rubber [Regulation (EC) No 1935/2004 & French Arrêté du 25/11/1992]

Test Method: French Arrêté du 25/11/1992

<u>Sample</u>	<u>Test Condition</u>	<u>Test Result</u> <u>(mg/kg)</u>	<u>Detection Limit</u> <u>(mg/kg)</u>	<u>Requirement</u> <u>(mg/kg)</u>	<u>Rating</u>
004	3% Acetic acid 100°C, 2hours	<0.02	0.02	Max.0.1	PASS

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18. Polycyclic Aromatic Hydrocarbons (PAHs) [REACH Annex XVII entry 50]

With reference to AfPS GS 2019:01 PAK.

Detection Limit: 0.1mg/kg

Compounds	Result (mg/kg)		Requirements (mg/kg)	Rating
	Sample 001+002+003	Sample 004		
Benzo (a) anthracene	Not Detected	Not Detected	< 1	PASS
Chrysene	Not Detected	Not Detected	< 1	
Benzo (b) fluoranthene	Not Detected	Not Detected	< 1	
Benzo (j) fluoranthene	Not Detected	Not Detected	< 1	
Benzo (k) fluoranthene	Not Detected	Not Detected	< 1	
Benzo (a) pyrene	Not Detected	Not Detected	< 1	
Benzo (e) pyrene	Not Detected	Not Detected	< 1	
Dibenzo (a,h) anthracene	Not Detected	Not Detected	< 1	
“<” means less than; “>” means greater than; “mg/kg” means milligrams per kilogram				

19. Phthalates according To Regulation (EC) No. 1907/2006 on REACH Annex XVII Item No 51/52

Test Method: EN 14372:2004 6.3.2 Determination of phthalate content

Detection limit: BBP/DBP/DEHP/DIBP/DNOP=0.01%; DINP/DIDP=0.02%

	Sample 001+002+003		Sample 004		Requirement (%)
Item	Result (%)	Total (%)	Result (%)	Total (%)	Sum
BBP	< 0.01	0.1	< 0.01	<0.1	Max.0.1
DBP	< 0.01		< 0.01		
DEHP	< 0.01		< 0.01		
DIBP	< 0.01		< 0.01		
DNOP	<0.01	<0.1	<0.01	<0.1	Max.0.1
DINP	<0.02		<0.02		
DIDP	<0.02		<0.02		
Rating	PASS		PASS		
Remark: Benzyl butyl phthalate, BBP; Dibutyl phthalate, DBP; Bis(2-ethylhexyl) phthalate, DEHP; Diisobutyl phthalate, DIBP Di-n-octyl phthalate, DNOP; Di-iso-nonyl phthalate, DINP; Diisodecyl phthalate, DIDP					

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20. Total Cadmium Content [Regulation (EC) 1907/2006, REACH Annex XVII No.23]

Test Method: Wet digestion method was used and total Cadmium content was determined by ICP-OES.

Detection Limit: 7.5mg/kg

Sample	Result (mg/kg)	Requirements (mg/kg)	Rating
001+002+003	<7.5	Max.100	PASS
004	<7.5	Max.100	PASS

"<" means less than; ">" means greater than; "mg/kg" means milligrams per kilogram

21. Total Lead Content Test [Regulation (EC) 1907/2006, REACH Annex XVII No.63]

Test Method: Digest the sample with acid, then analysed by ICP-OES

Detection Limit: 20.0mg/kg

Sample	Result (mg/kg)	Requirements (mg/kg)	Rating
001+002+003	<20.0	Max.500	PASS
004	<20.0	Max.500	PASS
006	<20.0	Max.500	PASS

"<" means less than; ">" means greater than; "mg/kg" means milligrams per kilogram

22. N-Nitrosamines and N-Nitrosatable Substances for Food Contact Rubber [EN 14350:2020+A1:2023 Section 8.5]

Test Method: With reference to EN 12868:2017, followed by analysis GC-MS

Sample	Test Item	Test Result (mg/kg)	Detection Limit (mg/kg)	Requirement (mg/kg)	Rating
004	N-Nitrosamines	<0.01	0.01	0.01	PASS
	N-Nitrosatable Substances	<0.1	0.1	0.1	PASS

"<" means less than; "mg/kg" means milligrams per kilogram

Nitrosamines Tested:

N-Nitrosodimethylamine(Ndma), N-Nitrosodiethylamine(Ndea), N-Nitrosodipropylamine(Ndpa), N-Nitrosodibutylamine(Ndba),
N-Nitrosopiperidine(Npip), N-Nitrosopyrrolidine(Npyr), N-Nitrosomorpholine(Nmor), N-Nitrosodibenzylamine(Ndbza),
N-Nitrosodiisononylamine(Ndina), N-Nitroso N-Methyl N-Phenylamine(Nmpha), N-Nitroso N-ethyl N-phenylamine (Nepha)
N-Nitrosodiisobutylamine(Ndiba)

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