

Test Report

Report No.: CTT2406012170EN

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Applicant: PAR BAKULA SP.J.
Address: BYSEWSKA 30, 80-298 GDANSK, POLAND

Sample Received Date: Jun. 12, 2024
Completed Date: Jun. 17, 2024
Report Date: Jun. 17, 2024

The following merchandise was (were) submitted and identified on behalf of the applicant as:

Sample Name: Vacuum bottle
Model No.: R08192.02, R08192.08, R08192.42
Sample Color: black, red, navy blue
Country of Origin: China

Test Result(s): Please refer to next page(s).

Test Requested and Conclusion(s): Please refer to next page(s).

Signed for and on Behalf of CTT:



Yanfen Huang
Technical Manager



Verification Report

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Test Requested and Conclusion(s):

No.	Standard and Requirement	Conclusion(s)
1	CM/Res(2013)9 on metals and alloys used in food contact materials and articles. - Specific Release of 23 Metals	PASS
2	German food, Articles of Daily Use and Feed Code (LFGB), section 30&31, and BfR Recommendations on silicone used in food contact materials and articles - Extractives 10% ethanol - Extractives 3%acetic acid - Volatile Organic Matter(VOM)	PASS
3	COMMISSION REGULATION(EU) No 10/2011 and its amendments on plastic materials and articles intended to come into contact with food - Overall Migration - Specific migration of primary aromatic amines - Specific migration of Bisphenol A (BPA) - Migration of Heavy metal	PASS

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Test Result(s):

Specific Release of 23 Metals - Council of Europe Resolution CM/Res(2013)9 on metals and alloys used in food contact materials and articles.

Method: EDQM Technical Guide Resolution CM/Res(2013)9, analyzed by Inductively coupled plasma mass spectrometry (ICP-MS) or Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Material No.	Test Item	LOQ (mg/kg)	Limit (mg/kg)	Result (mg/kg)	Conclusion
1	Aluminum (1st+2nd)	2	35	N.D.	PASS
	Aluminum (3rd)	1	5	N.D.	
	Antimony (1st+2nd)	0.02	0.28	N.D.	
	Antimony (3rd)	0.01	0.04	N.D.	
	Arsenic (1st+2nd)	0.0002	0.014	N.D.	
	Arsenic (3rd)	0.001	0.002	N.D.	
	Barium (1st+2nd)	0.2	8.4	N.D.	
	Barium (3rd)	0.1	1.2	N.D.	
	Beryllium (1st+2nd)	0.002	0.07	N.D.	
	Beryllium (3rd)	0.001	0.01	N.D.	
	Cadmium (1st+2nd)	0.002	0.035	N.D.	
	Cadmium (3rd)	0.001	0.005	N.D.	
	Chromium (1st+2nd)	0.100	1.750	N.D.	
	Chromium (3rd)	0.050	0.250	N.D.	
	Cobalt (1st+2nd)	0.002	0.14	N.D.	
	Cobalt (3rd)	0.001	0.02	N.D.	
	Copper (1st+2nd)	2	28	N.D.	
	Copper (3rd)	1	4	N.D.	
	Iron (1st+2nd)	2	280	N.D.	
	Iron (3rd)	1	40	N.D.	
	Lead (1st+2nd)	0.002	0.07	N.D.	
	Lead (3rd)	0.001	0.01	N.D.	
	Lithium (1st+2nd)	0.020	0.336	N.D.	
Lithium (3rd)	0.010	0.048	N.D.		
Manganese (1st+2nd)	0.2	12.6	N.D.		
Manganese (3rd)	0.1	1.8	N.D.		
Mercury (1st+2nd)	0.0002	0.021	N.D.		
Mercury (3rd)	0.001	0.003	N.D.		
Molybdenum (1st+2nd)	0.02	0.84	N.D.		
Molybdenum (3rd)	0.01	0.12	N.D.		
Nickel (1st+2nd)	0.10	0.98	N.D.		

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Nickel (3rd)	0.05	0.14	N.D.
Silver (3rd)	0.01	0.08	N.D.
Silver(1st+2nd)	0.02	0.56	N.D.
Thallium (1st+2nd)	0.0002	0.0007	N.D.
Thallium (3rd)	0.0001	0.0001	N.D.
Tin (1st+2nd)	2	700	N.D.
Tin (3rd)	1	100	N.D.
Vanadium (1st+2nd)	0.002	0.07	N.D.
Vanadium (3rd)	0.001	0.01	N.D.
Zinc (1st+2nd)	2	35	N.D.
Zinc (3rd)	1	5	N.D.
Titanium (1st+2nd)	2	--	N.D.
Titanium (3rd)	1	--	N.D.
Magnesium (1st+2nd)	2	--	N.D.
Magnesium (3rd)	1	--	N.D.

- NOTE:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (Less than LOQ, LOQ = Limit of Quantitation).
 3. $S/V=7$ (dm^2/L), S=surface area, V= volume.
 4. Test condition: Artificial tap water at 100°C for 1 hour.
 5. "--" = Not Applicable.

Test Result(s):

Extractives 10% ethanol - German food, Articles of Daily Use and Feed Code (LFGB), section 30&31, and BfR Recommendations on silicone used in food contact materials and articles

Method: With reference to 61st Communication on testing of plastics in Bundesgesundheitsbl 46(2003) 362.ⁿ

Material No.	Test Item	LOQ (%)	Limit (%)	Result (%)	Conclusion
3	10% Ethanol(v/v)	0.10	0.50	N.D.	PASS

- NOTE:**
1. % = percentage.
 2. N.D. = Not Detected (Less than LOQ, LOQ = Limit of Quantitation).
 3. Test condition: Refluxing, 5 hours.

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Test Result(s):

Extractives 3%acetic acid - German food, Articles of Daily Use and Feed Code (LFGB), section 30&31, and BfR Recommendations on silicone used in food contact materials and articles

Method: With reference to 61st Communication on testing of plastics in Bundesgesundheitsbl 46(2003) 362.ⁿ

Material No.	Test Item	LOQ (%)	Limit (%)	Result (%)	Conclusion
3	3% Acetic acid(w/v)	0.10	0.50	N.D.	PASS

- NOTE:**
1. % = percentage.
 2. N.D. = Not Detected (Less than LOQ, LOQ = Limit of Quantitation).
 3. Test condition: Refluxing, 5 hours.

Test Result(s):

Volatile Organic Matter(VOM) - German food, Articles of Daily Use and Feed Code (LFGB), section 30&31, and BfR Recommendations on silicone used in food contact materials and articles

Method: BfR Determination of volatile compounds in silicone consumer productsⁿ

Material No.	Test Item	LOQ (%)	Limit (%)	Result (%)	Conclusion
3	Volatile Organic Matter(VOM)	0.10	0.50	N.D.	PASS

- NOTE:**
1. % = percentage.
 2. N.D. = Not Detected (Less than LOQ, LOQ = Limit of Quantitation).

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Test Result(s):

Overall Migration - COMMISSION REGULATION(EU) No 10/2011 and its amendments on plastic materials and articles intended to come into contact with food

Method: EN 1186-1:2002&EN 1186-3:2022

Material No.	Test Condition	Test Item	LOQ (mg/dm ²)	Limit (mg/dm ²)	Result (mg/dm ²)	Conclusion
2	10% Ethanol(v/v) , 100°C ,1h	Overall Migration (1st)	3.0	--	N.D.	PASS
		Overall Migration (2nd)	3.0	--	N.D.	
		Overall Migration (3rd)	3.0	10	N.D.	
2	3% Acetic acid(w/v) , 100°C ,1h	Overall Migration (1st)	3.0	--	N.D.	PASS
		Overall Migration (2nd)	3.0	--	N.D.	
		Overall Migration (3rd)	3.0	10	N.D.	

NOTE:

1. mg/dm²= milligram per square decimeter.
2. N.D. = Not Detected (Less than LOQ, LOQ = Limit of Quantitation).
3. S/V=9 (dm²/L), S=surface area, V= volume.
4. The material or article is intended to come into repeated contact with foods, the migration test(s) shall be carried out three times.The results of subsequent migrations must not exceed the previous ones and the determination of compliance is based on the third migration result.
5. "--" = Not Applicable.

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Test Result(s):

Specific migration of primary aromatic amines - COMMISSION REGULATION(EU) No 10/2011 and its amendments on plastic materials and articles intended to come into contact with food

Method: BS EN 13130-1:2004, analyzed by Ultra High Performance Liquid Chromatography-Mass Spectrometry (UPLC-MS/MS) .

No.	Substances Name	CAS No.	Limit (mg/kg)	Results (mg/kg)		
				2		
				1st	2nd	3rd
1	biphenyl-4-ylamine/ 4-aminodiphenyl/ xenylamine	92-67-1	0.002	<0.002	<0.002	<0.002
2	benzidine	92-87-5	0.002	<0.002	<0.002	<0.002
3	4-chloro-o-toluidine	95-69-2	0.002	<0.002	<0.002	<0.002
4	2-naphthylamine	91-59-8	0.002	<0.002	<0.002	<0.002
5	o-aminoazotoluene/ 4-o-tolylazo-o-toluidine/ 4-amino-2', 3-dimethylazobenzene	97-56-3	0.002	<0.002	<0.002	<0.002
6	2-amino-4-nitrotoluene/ 5-nitro-o-toluidine	99-55-8	0.002	<0.002	<0.002	<0.002
7	4-chloroaniline	106-47-8	0.002	<0.002	<0.002	<0.002
8	4-methoxy-m-phenylenediamine	615-05-4	0.002	<0.002	<0.002	<0.002
9	4,4'-methylenedianiline/4,4'-diaminodiphenylmethane	101-77-9	0.002	<0.002	<0.002	<0.002
10	3,3'-dichlorobenzidine/ 3,3'-dichlorobiphenyl-4,4'-ylenediamine	91-94-1	0.002	<0.002	<0.002	<0.002
11	3,3'-dimethoxybenzidine/ o-dianisidine	119-90-4	0.002	<0.002	<0.002	<0.002
12	3,3'-dimethylbenzidine/ 4,4'-bi-o-toluidine	119-93-7	0.002	<0.002	<0.002	<0.002
13	4,4'-methylenedi-o-toluidine	838-88-0	0.002	<0.002	<0.002	<0.002
14	6-methoxy-m-toluidine/ p-cresidine	120-71-8	0.002	<0.002	<0.002	<0.002

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15	4,4'-methylene-bis-(2-chloroaniline)/ 2,2'-dichloro-4,4'-methylene-dianiline	101-14-4	0.002	<0.002	<0.002	<0.002
16	4,4'-oxydianiline	101-80-4	0.002	<0.002	<0.002	<0.002
17	4,4'-thiodianiline	139-65-1	0.002	<0.002	<0.002	<0.002
18	o-toluidine/ 2-aminotoluene	95-53-4	0.002	<0.002	<0.002	<0.002
19	4-methyl-m-phenylenediamine/ 2,4-toluylendiamine	95-80-7	0.002	<0.002	<0.002	<0.002
20	2,4,5-trimethylaniline	137-17-7	0.002	<0.002	<0.002	<0.002
21	o-anisidine / 2-methoxyaniline	90-04-0	0.002	<0.002	<0.002	<0.002
22	4-aminoazobenzene	60-09-3	0.002	<0.002	<0.002	<0.002
23	m-Phenylenediamine	108-45-2	0.002	<0.002	<0.002	<0.002
24	Aniline	62-53-3	0.01	<0.01	<0.01	<0.01
25	2,4-Dimethylaniline/2,4-xylidine	95-68-1				
26	2,6-Dimethylaniline/2,6-xylidine	87-62-7				
27	p-Phenylenediamine/ 1,4-phenylenediamine	106-50-3				
28	2,6-Toluenediamine	823-40-5				
29	1,5-Diaminenaphthalane	2243-62-1				
Conclusion				PASS		

- Note:**
1. Test Condition: 3% Acetic acid(w/v),100°C for 1 hour.
 2. mg/kg = milligrams of the constituents released per kilogram of foodstuff.
 3. The results of the three migration tests should show a decreasing trend, and the results of the third test should be used to determine the compliance.
 4. $S/V=9(dm^2/L)$, S=surface area, V= volume.

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Test Result(s):

Specific migration of Bisphenol A (BPA) - COMMISSION REGULATION(EU) No 10/2011 and its amendments on plastic materials and articles intended to come into contact with food

Method: CEN/TS 13130-13:2005

Material No.	Test Condition	Test Item	LOQ (mg/kg)	Limit (mg/kg)	Result (mg/kg)	Conclusion
2	3% Acetic acid(w/v) ,100°C ,1h	Bisphenol A (BPA)(3rd)	0.01	0.05	N.D.	PASS
2	3% Acetic acid(w/v) ,100°C ,1h	Bisphenol A (BPA)(1st)	0.01	--	N.D.	
2	3% Acetic acid(w/v) ,100°C ,1h	Bisphenol A (BPA)(2nd)	0.01	--	N.D.	

NOTE:

1. mg/kg = milligram per kilogram (ppm).
2. N.D. = Not Detected (Less than LOQ, LOQ = Limit of Quantitation).
3. $S/V=9$ (dm²/L), S=surface area, V= volume.
4. The material or article is intended to come into repeated contact with foods, the migration test(s) shall be carried out three times.The results of subsequent migrations must not exceed the previous ones and the determination of compliance is based on the third migration result.
5. "--" = Not Applicable.

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Test Result(s):

Migration of Heavy metal - COMMISSION REGULATION(EU) No 10/2011 and its amendments on plastic materials and articles intended to come into contact with food

Method: BS EN 13130-1:2004, analyzed by Inductively coupled plasma mass spectrometry (ICP-MS) .

No.	Elements	Limit (mg/kg)	Results (mg/kg)		
			2		
			1st	2nd	3rd
1	Barium (Ba)	1	<0.1	<0.1	<0.1
2	Cobalt (Co)	0.05	<0.05	<0.05	<0.05
3	Copper (Cu)	5	<0.5	<0.5	<0.5
4	Iron (Fe)	48	<1	<1	<1
5	Lithium (Li)	0.6	<0.1	<0.1	<0.1
6	Manganese (Mn)	0.6	<0.05	<0.05	<0.05
7	Zinc (Zn)	5	<1	<1	<1
8	Aluminium (Al)	1	<0.1	<0.1	<0.1
9	Nickel (Ni)	0.02	<0.01	<0.01	<0.01
10	Lead (Pb)	0.01	<0.01	<0.01	<0.01
11	Cadmium (Cd)	0.002	<0.002	<0.002	<0.002
12	Arsenic (As)	0.01	<0.01	<0.01	<0.01
13	Mercury (Hg)	0.01	<0.01	<0.01	<0.01
14	Chromium (Cr)	0.01	<0.01	<0.01	<0.01
15	Antimony (Sb)	0.04	<0.02	<0.02	<0.02
16	Europium (Eu)	0.05	<0.01	<0.01	<0.01
17	Gadolinium (Gd)	0.05	<0.01	<0.01	<0.01
18	Lanthanum (La)	0.05	<0.01	<0.01	<0.01
19	Terbium (Tb)	0.05	<0.01	<0.01	<0.01
Sum (Eu+Gd+La+Tb)		0.05	<0.01	<0.01	<0.01
Conclusion			PASS		

- Note:**
1. Test Condition: 3% Acetic acid(w/v),100°C for 1 hour
 2. mg/kg = milligrams of the constituents released per kilogram of foodstuff.
 3. The results of the three migration tests should show a decreasing trend, and the results of the third test should be used to determine the compliance.
 4. $S/V=9$ (dm²/L), S=surface area, V= volume.

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Test Material List

Material No.	Sample Description	Location
1	Silvery metal	Blue cup liner (B)
2	Black Plastic (pp)	Black cup lid inside (A)
3	Translucent silicone	Red cup sealing ring (C)

Photo of Sample:



End of Report

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