Test report

23W-013637(A1)

Verify Report

Overall result — PASS with information

Please refer to the following pages for test result summary and notes.

Client information

Client: SPECTOR & CO.

Address: 5700 rue Kieran, Montréal, Quebec H4S 2B5 Canada

Sample information

Description: 40 OZ/ 1200 ML DOUBLE WALL VACUUM INSULATED.

Assortment: BLK /NVY/BON/CHA

Item no./name: DW420

Item class: HAPPY CAMPER

Country of origin: China

Country of distribution: Canada, United States

Quantity submitted: 4 styles

Purchase order #: PO 72882

Factory/supplier: USN039

Labeled age grade: -

Tested age grade: -

General information

Sample receipt date: 26-Sep-2023

Testing period: 26-Sep-2023 to 13-Oct-2023, 30-Oct-2023 to 03-Nov-2023

Report date: 03-Nov-2023

QIMA (Hangzhou) Testing Co., Ltd.

Jeremy Xu

Chemical Laboratory Supervisor

Result summary

At the request of the client, the following test were conducted:

Test(s) conducted	Conclusion
California Proposition 65, Total Lead in Paints and Surface Coatings	PASS
California Proposition 65, Total Lead in Substrate Materials	PASS
Canadian Surface Coating Materials Regulations SOR/2016-193, Total Lead in Stickers, Films and Surface Coating Materials	PASS
Canadian Consumer Products Containing Lead Regulations (SOR/2018-83), Total Lead Content	PASS
California Proposition 65, Total Cadmium in Paints and Surface Coatings	PASS
California Proposition 65, Total Cadmium in Substrate Materials	PASS
Canadian Surface Coating Materials Regulations SOR/2016-193, Total Mercury in Paints and Surface Coatings	PASS
Client's requirement, Total Nickel content	Information only
Client's Requirement, Total Tungsten content	Information only
Client's requirement, Bisphenol A content	PASS
CPSC 16 CFR 1307 Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates (DBP, BBP, DEHP, DINP, DHEXP / DnHP, DCHP, DIBP, DPENP)	PASS
California Proposition 65, Phthalates (DBP, BBP, DEHP, DINP, DIDP, DnHP)	PASS
Client's Requirement, Phthalates content	PASS
FDA GRAS Specifications, Total Chromium in Stainless Steel Food Containers	PASS
FDA 21 CFR 175.300, Resinous and Polymeric Coatings	PASS
FDA 21 CFR 177.1210, Closures with Sealing Gaskets	PASS
FDA 21 CFR 177.1520, Polypropylene Homopolymers	PASS
FDA 21 CFR 177.2600, Rubber	PASS
FDA 21 CFR 180.22 and 181.32, Acrylonitrile/Styrene Copolymers	PASS

Detailed results

California Proposition 65, Total Lead in Paints and Surface Coatings

Test Method: CPSC-CH-E1003-09.1
Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	7+16+17	18+19	---	---	---	**Limit (mg/kg)**
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Lead (Pb)	24	ND	---	---	---	**90**
Conclusion	PASS	PASS	---	---	---	

Note:
mg/kg =Milligrams per kilogram
LT = Less than
ND = Not detected (Reporting Limit = 15mg/kg)
Composite results are based on specimen of least mass resulting in highest potential concentration.

Remark:
The specification is quoted from client's requirement.

Detailed results

California Proposition 65, Total Lead in Substrate Materials

Test Method: CPSC-CH-E1001-08.3 (Metal), CPSC-CH-E1002-08.3 (Non-Metal)
Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	1+2	3+4+12	6	8	9+10	**Limit (mg/kg)**
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Lead (Pb)	ND	ND	ND	ND	ND	**100**
Conclusion	PASS	PASS	PASS	PASS	PASS	

Specimen No.	11	13+14+15	---	---	---	**Limit (mg/kg)**
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Lead (Pb)	ND	ND	---	---	---	**100**
Conclusion	PASS	PASS	---	---	---	

Note:
mg/kg =Milligrams per kilogram
LT = Less than
ND = Not detected (Reporting Limit =15 mg/kg)
Composite results are based on specimen of least mass resulting in highest potential concentration.

Remark:
The specification is quoted from client's requirement.

Detailed results

Canadian Surface Coating Materials Regulations SOR/2016-193, Total Lead in Stickers, Films and Surface Coating Materials

Test Method: ASTM F963-17 Clause 8.3.1
Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	7+16+17	18+19	---	---	---	**Total**
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	**Limit (mg/kg)**
Total Lead (Pb)	24	ND	---	---	---	**90**
Conclusion	PASS	PASS	---	---	---	

Note:
mg/kg=Milligrams per kilogram
LT = Less than
ND = Not detected (Reporting Limit =15 mg/kg)
Composite results are based on specimen of least mass resulting in highest potential concentration.

Detailed results

Canadian Consumer Products Containing Lead Regulations (SOR/2018-83), Total Lead Content

Test Method: ASTM F963-17 Clause 8.3.1
Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	1+2	3+4+12	6	7+16+17	8	**Limit (mg/kg)**
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Lead (Pb)	ND	ND	ND	24	ND	**90**
Conclusion	PASS	PASS	PASS	PASS	PASS	

Specimen No.	9+10	11	13+14+15	18+19	---	**Limit (mg/kg)**
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Lead (Pb)	ND	ND	ND	ND	---	**90**
Conclusion	PASS	PASS	PASS	PASS	---	

Note:
mg/kg=Milligrams per kilogram)
LT = Less than
ND = Not detected (Reporting Limit = 15 mg/kg)
Composite results are based on specimen of least mass resulting in highest potential concentration.

Detailed results

California Proposition 65, Total Cadmium in Paints and Surface Coatings

Test Method: ASTM F963-17 Clause 8.3.1
Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	7+16+17	18+19	---	---	---	**Limit (mg/kg)**
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Cadmium (Cd)	ND	ND	---	---	---	**75**
Conclusion	PASS	PASS	---	---	---	

Note:
mg/kg =Milligrams per kilogram
LT = Less than
ND = Not detected (Reporting Limit = 15 mg/kg)
Composite results are based on specimen of least mass resulting in highest potential concentration.

Remark:
The specification is quoted from client's requirement.

Detailed results

California Proposition 65, Total Cadmium in Substrate Materials

Test Method: ASTM F963-17 Clause 8.3.1
Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	1+2	3+4+12	6	8	9+10	**Limit (mg/kg)**
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Cadmium (Cd)	ND	ND	ND	ND	ND	**75**
Conclusion	PASS	PASS	PASS	PASS	PASS	

Specimen No.	11	13+14+15	---	---	---	**Limit (mg/kg)**
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Cadmium (Cd)	ND	ND	---	---	---	**75**
Conclusion	PASS	PASS	---	---	---	

Note:
mg/kg =Milligrams per kilogram
LT = Less than
ND = Not detected (Reporting Limit = 15 mg/kg)
Composite results are based on specimen of least mass resulting in highest potential concentration.

Remark:
The specification is quoted from client's requirement.

Detailed results

Canadian Surface Coating Materials Regulations SOR/2016-193, Total Mercury in Paints and Surface Coatings

Test Method: ASTM F963-17 Clause 8.3.1
Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	7+16+17	18+19	---	---	---	**Total**
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	**Limit (mg/kg)**
Total Mercury (Hg)	ND	ND	---	---	---	**10**
Conclusion	PASS	PASS	---	---	---	

Note:
mg/kg=Milligrams per kilogram
LT = Less than
ND = Not detected (Reporting Limit = 10 mg/kg)
Composite results are based on specimen of least mass resulting in highest potential concentration.

Detailed results

Client's requirement, Total Nickel content

Test Method: US EPA 3052:1996 & US EPA 6010D:2014
Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	6+8+11	---	---	---	---	**Limit (mg/kg)**
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Nickel (Ni)	68921	---	---	---	---	
Conclusion	Information only	---	---	---	---	

Note:
mg/kg = Milligrams per kilogram
ND = Not detected (report limit = 30 mg/kg)
Composite results are based on specimen of least mass resulting in highest potential concentration.

Detailed results

Client's Requirement, Total Tungsten content

Test Method: US EPA 3052:1996 & US EPA 6010D:2014
Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	6+8+11	---	---	---	---	**Limit (mg/kg)**
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Tungsten (W)	45	---	---	---	---	
Conclusion	Information only	---	---	---	---	

Note:
mg/kg = Milligrams per kilogram
LT = Less than
ND = Not detected (Reporting Limit = 15 mg/kg)
Composite results are based on specimen of least mass resulting in highest potential concentration.

Detailed results

Client's requirement, Bisphenol A content

Test Method: In-House Method
Analytical Method: Liquid Chromatography-Mass Spectrometer Mass Spectrometer (LC-MS/MS)

Specimen No.		1	2	3	4	**Client's limit (mg/kg)**
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Bisphenol A (BPA)	80-05-7	ND	ND	ND	ND	**Not Detected**
Conclusion		PASS	PASS	PASS	PASS	

Specimen No.		9	13	14	15	**Client's limit (mg/kg)**
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Bisphenol A (BPA)	80-05-7	ND	ND	ND	ND	**Not Detected**
Conclusion		PASS	PASS	PASS	PASS	

Specimen No.		19	---	---	---	**Client's limit (mg/kg)**
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Bisphenol A (BPA)	80-05-7	ND	---	---	---	**Not Detected**
Conclusion		PASS	---	---	---	

Note:
mg/kg=milligram per kilogram
ND=Not Detected (Reporting limit = 1.0mg/kg)

Detailed results

CPSC 16 CFR 1307 Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates (DBP, BBP, DEHP, DINP, DHEXP / DnHP, DCHP, DIBP, DPENP)

Test Method: CPSC-CH-C1001-09.4
Analytical Method: Gas Chromatography with Mass Spectrometry

Specimen No.		1+2	3+4+12	7+16+17	9+10	**Limit (mg/kg)**
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Dibutyl phthalate (DBP)	84-74-2	ND	ND	ND	ND	**1000**
Benzyl butyl phthalate (BBP)	85-68-7	ND	ND	ND	ND	**1000**
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	ND	ND	ND	**1000**
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	ND	ND	**1000**
Di-n-hexyl phthalate (DHEXP / DnHP)	84-75-3	ND	ND	ND	ND	**1000**
Dicyclohexyl phthalate (DCHP)	84-61-7	ND	ND	ND	ND	**1000**
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	ND	**1000**
Di-n-pentyl phthalate (DPENP)	131-18-0	ND	ND	ND	ND	**1000**
Conclusion		PASS	PASS	PASS	PASS	

Note:
mg/kg = Milligrams per kilogram
LT = Less than
ND = Not detected (Reporting Limit = 150 mg/kg)
Composite results are based on specimen of least mass resulting in highest potential concentration.

Detailed results

CPSC 16 CFR 1307 Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates (DBP, BBP, DEHP, DINP, DHEXP / DnHP, DCHP, DIBP, DPENP)

Test Method: CPSC-CH-C1001-09.4
Analytical Method: Gas Chromatography with Mass Spectrometry

Specimen No.		13+14+15	18+19	---	---	**Limit (mg/kg)**
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Dibutyl phthalate (DBP)	84-74-2	ND	ND	---	---	**1000**
Benzyl butyl phthalate (BBP)	85-68-7	ND	ND	---	---	**1000**
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	ND	---	---	**1000**
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	---	---	**1000**
Di-n-hexyl phthalate (DHEXP / DnHP)	84-75-3	ND	ND	---	---	**1000**
Dicyclohexyl phthalate (DCHP)	84-61-7	ND	ND	---	---	**1000**
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	---	---	**1000**
Di-n-pentyl phthalate (DPENP)	131-18-0	ND	ND	---	---	**1000**
Conclusion		PASS	PASS	---	---	

Note:
mg/kg = Milligrams per kilogram
LT = Less than
ND = Not detected (Reporting Limit = 150 mg/kg)
Composite results are based on specimen of least mass resulting in highest potential concentration.

Detailed results

California Proposition 65, Phthalates (DBP, BBP, DEHP, DINP, DIDP, DnHP)

Test Method: CPSC-CH-C1001-09.4
Analytical Method: Gas Chromatography with Mass Spectrometry

Specimen No.		1+2	3+4+12	7+16+17	9+10	Limit (mg/kg)
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Dibutyl phthalate (DBP)	84-74-2	ND	ND	ND	ND	**1000**
Benzyl butyl phthalate (BBP)	85-68-7	ND	ND	ND	ND	**1000**
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	ND	ND	ND	**1000**
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	ND	ND	**1000**
Diisodecyl phthalate (DIDP)	26761-40-0 68515-49-1	ND	ND	ND	ND	**1000**
Di-n-hexyl phthalate (DnHP)	84-75-3	ND	ND	ND	ND	**1000**
Conclusion		PASS	PASS	PASS	PASS	

Note:
mg/kg (Milligrams per kilogram) = 0.0001 % w/w (Percent by weight)
LT = Less than
ND = Not detected (Reporting Limit = 150 mg/kg)
Composite results are based on specimen of least mass resulting in highest potential concentration.

Remark:
The specification is quoted from client's requirement.

Detailed results

California Proposition 65, Phthalates (DBP, BBP, DEHP, DINP, DIDP, DnHP)

Test Method: CPSC-CH-C1001-09.4
Analytical Method: Gas Chromatography with Mass Spectrometry

Specimen No.		13+14+15	18+19	---	---	**Limit (mg/kg)**
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Dibutyl phthalate (DBP)	84-74-2	ND	ND	---	---	**1000**
Benzyl butyl phthalate (BBP)	85-68-7	ND	ND	---	---	**1000**
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	ND	---	---	**1000**
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	---	---	**1000**
Diisodecyl phthalate (DIDP)	26761-40-0 68515-49-1	ND	ND	---	---	**1000**
Di-n-hexyl phthalate (DnHP)	84-75-3	ND	ND	---	---	**1000**
Conclusion		PASS	PASS	---	---	

Note:
mg/kg (Milligrams per kilogram) = 0.0001 % w/w (Percent by weight)
LT = Less than
ND = Not detected (Reporting Limit = 150 mg/kg)
Composite results are based on specimen of least mass resulting in highest potential concentration.

Remark:
The specification is quoted from client's requirement.

Detailed results

Client's Requirement, Phthalates content

Test Method: CPSC-CH-C1001-09.4
Analytical Method: Gas Chromatography with Mass Spectrometry

Specimen No.		1+2	3+4+12	7+16+17	9+10	Limit (mg/kg)
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Dibutyl phthalate (DBP)	84-74-2	ND	ND	ND	ND	**1000**
Benzyl butyl phthalate (BBP)	85-68-7	ND	ND	ND	ND	**1000**
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	ND	ND	ND	**1000**
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	ND	ND	**1000**
Diisodecyl phthalate (DIDP)	26761-40-0 68515-49-1	ND	ND	ND	ND	**1000**
Di-n-hexyl phthalate (DHEXP / DnHP)	84-75-3	ND	ND	ND	ND	**1000**
Di-n-octyl phthalate (DNOP)	117-84-0	ND	ND	ND	ND	**1000**
Diethyl phthalate (DEP)	84-66-2	ND	ND	ND	ND	**1000**
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	ND	**1000**
Dicyclohexyl phthalate (DCHP)	84-61-7	ND	ND	ND	ND	**1000**
Di-n-pentyl phthalate (DPENP/DnPP)	131-18-0	ND	ND	ND	ND	**1000**
Conclusion		PASS	PASS	PASS	PASS	

Note:
mg/kg (Milligrams per kilogram) = 0.0001 % w/w (Percent by weight)
LT = Less than
ND = Not detected (Reporting Limit = 150 mg/kg)
Composite results are based on specimen of least mass resulting in highest potential concentration.

Detailed results

Client's Requirement, Phthalates content

Test Method: CPSC-CH-C1001-09.4
Analytical Method: Gas Chromatography with Mass Spectrometry

Specimen No.		13+14+15	18+19	---	---	Limit (mg/kg)
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Dibutyl phthalate (DBP)	84-74-2	ND	ND	---	---	**1000**
Benzyl butyl phthalate (BBP)	85-68-7	ND	ND	---	---	**1000**
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	ND	---	---	**1000**
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	---	---	**1000**
Diisodecyl phthalate (DIDP)	26761-40-0 68515-49-1	ND	ND	---	---	**1000**
Di-n-hexyl phthalate (DHEXP / DnHP)	84-75-3	ND	ND	---	---	**1000**
Di-n-octyl phthalate (DNOP)	117-84-0	ND	ND	---	---	**1000**
Diethyl phthalate (DEP)	84-66-2	ND	ND	---	---	**1000**
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	---	---	**1000**
Dicyclohexyl phthalate (DCHP)	84-61-7	ND	ND	---	---	**1000**
Di-n-pentyl phthalate (DPENP/DnPP)	131-18-0	ND	ND	---	---	**1000**
Conclusion		PASS	PASS	---	---	

Note:
mg/kg (Milligrams per kilogram) = 0.0001 % w/w (Percent by weight)
LT = Less than
ND = Not detected (Reporting Limit = 150 mg/kg)
Composite results are based on specimen of least mass resulting in highest potential concentration.

Detailed results

FDA GRAS Specifications, Total Chromium in Stainless Steel Food Containers

Test Method: SN/T 2718-2010
Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	6	---	---	---	---	**Limit (% m/m)**
Test Item	Result (% m/m)	Result (% m/m)	Result (% m/m)	Result (% m/m)	Result (% m/m)	
Total Chromium (Cr)	18.26	---	---	---	---	**GT 16**
Conclusion	PASS	---	---	---	---	

Note:
% m/m = Percent by mass
GT = Greater than

Remark:
The limit is quoted from ANSI/NSF 51-1997 Section 7.1.2.

Detailed results

FDA 21 CFR 175.300, Resinous and Polymeric Coatings

Test Method: FDA 21 CFR 175.300

Specimen No.			5	RL	Limit
Test Item	Test Condition		Result		
	Temp.	Duration			
Distilled water extractive (mg/in^2)	Fill boiling	Cooling to 100°F	ND	**0.1**	**18**
n-Heptane extractive (mg/in^2)	120°F	0.25 hours	ND	**0.1**	**18**
Conclusion			PASS		

Note:
Temp. = Temperature
°F = Degree Fahrenheit
mg/in^2= Milligrams per square inch
LT = Less than
ND = Not detected. Result value is less than reporting limit (RL).

Remark:
The specification is quoted from 21 CFR 175.300 (c) (3).

Detailed results

FDA 21 CFR 177.1210, Closures with Sealing Gaskets

Test Method: FDA 21 CFR 177.1210

Specimen No.			4	RL	Limit
Test Item	Test Condition		Result		
	Temp.	Duration			
Distilled water extractive (mg/kg)	Fill boiling	Cooling to 100°F	ND	**10**	**50**
n-Heptane extractive (mg/kg)	120°F	0.25 hours	ND	**10**	**50**
Conclusion			PASS		

Note:
Temp. = Temperature
°F = Degree Fahrenheit
ppm (Parts per million) = mg/kg (Milligrams per kilogram)
LT = Less than
ND = Not detected. Result value is less than reporting limit (RL).

Remark:
The specification is quoted from 21 CFR 177.1210 Table 2 Section 3.

Detailed results

FDA 21 CFR 177.1520, Polypropylene Homopolymers

Test Method: FDA 21 CFR 177.1520

Specimen No.			2	RL	Limit
Test Item	Test Condition		Result		
	Temp.	Duration			
Density (g/cc)	NA	NA	0.907	**NA**	**0.880 – 0.913**
Melting point (°C)	NA	NA	159	**NA**	**150 – 180**
n-Hexane extractive (% w/w)	Reflux	2 hours	0.5	**0.1**	**6.4**
Xylene extractive (% w/w)	Reflux	2 hours	ND	**0.5**	**9.8**
Conclusion			PASS		

Specimen No.			9	RL	Limit
Test Item	Test Condition		Result		
	Temp.	Duration			
Density (g/cc)	NA	NA	0.889	**NA**	**0.880 – 0.913**
Melting point (°C)	NA	NA	164	**NA**	**150 – 180**
n-Hexane extractive (% w/w)	Reflux	2 hours	0.6	**0.1**	**6.4**
Xylene extractive (% w/w)	Reflux	2 hours	1.7	**0.5**	**9.8**
Conclusion			PASS		

Note:
Temp. = Temperature
°C = Degree Celsius
g/cc = Grams per cubic centimeter
% w/w = Percent by weight
NA = Not applicable
LT = Less than
ND = Not detected. Result value is less than reporting limit (RL).

Remark:
The specification is quoted from 21 CFR 177.1520 (c) 1.1.

Detailed results

FDA 21 CFR 177.2600, Rubber

Test Method: FDA 21 CFR 177.2600

Specimen No.			3	RL	Limit
Test Item	Test Condition		Result		
	Temp.	Duration			
Distilled water extractive (mg/in^2)	Reflux	First 7 hours	ND	**2**	**20**
Distilled water extractive (mg/in^2)	Reflux	Succeeding 2 hours	ND	**0.1**	**1**
n-Hexane extractive (mg/in^2)	Reflux	First 7 hours	17	**15**	**175**
n-Hexane extractive (mg/in^2)	Reflux	Succeeding 2 hours	1.6	**0.4**	**4**
Conclusion			PASS		

Specimen No.			13	RL	Limit
Test Item	Test Condition		Result		
	Temp.	Duration			
Distilled water extractive (mg/in^2)	Reflux	First 7 hours	ND	**2**	**20**
Distilled water extractive (mg/in^2)	Reflux	Succeeding 2 hours	ND	**0.1**	**1**
n-Hexane extractive (mg/in^2)	Reflux	First 7 hours	17	**15**	**175**
n-Hexane extractive (mg/in^2)	Reflux	Succeeding 2 hours	1.5	**0.4**	**4**
Conclusion			PASS		

Note:
Temp. = Temperature
mg/in^2 = Milligrams per square inch
LT = Less than
ND = Not detected. Result value is less than reporting limit (RL).

Remark:
The specification is quoted from 21 CFR 177.2600 (e) and 177.2600 (f).

Detailed results

FDA 21 CFR 177.2600, Rubber

Test Method: FDA 21 CFR 177.2600

Specimen No.			14	RL	Limit
Test Item	Test Condition		Result		
	Temp.	Duration			
Distilled water extractive (mg/in^2)	Reflux	First 7 hours	ND	**2**	**20**
Distilled water extractive (mg/in^2)	Reflux	Succeeding 2 hours	ND	**0.1**	**1**
n-Hexane extractive (mg/in^2)	Reflux	First 7 hours	16	**15**	**175**
n-Hexane extractive (mg/in^2)	Reflux	Succeeding 2 hours	1.6	**0.4**	**4**
Conclusion			PASS		

Specimen No.			15	RL	Limit
Test Item	Test Condition		Result		
	Temp.	Duration			
Distilled water extractive (mg/in^2)	Reflux	First 7 hours	ND	**2**	**20**
Distilled water extractive (mg/in^2)	Reflux	Succeeding 2 hours	ND	**0.1**	**1**
n-Hexane extractive (mg/in^2)	Reflux	First 7 hours	16	**15**	**175**
n-Hexane extractive (mg/in^2)	Reflux	Succeeding 2 hours	1.5	**0.4**	**4**
Conclusion			PASS		

Note:
Temp. = Temperature
mg/in^2 = Milligrams per square inch
LT = Less than
ND = Not detected. Result value is less than reporting limit (RL).

Remark:
The specification is quoted from 21 CFR 177.2600 (e) and 177.2600 (f).

Detailed results

FDA 21 CFR 180.22 and 181.32, Acrylonitrile/Styrene Copolymers

Test Method: FDA 21 CFR 180.22 and 181.32
Analytical Method: Headspace-Gas Chromatography with Mass Spectrometry

Acrylonitrile Monomers:

Specimen No.			1		
Test Simulant	Test Condition		Result	**RL**	**Limit**
	Temp.	Duration			
3% Acetic acid extractive (mg/in^2)	120°F	2 hours	ND	**0.001**	**0.003**
Conclusion			PASS		

Note:
Temp. = Temperature
°F = Degree Fahrenheit
mg/in^2 = Milligrams per square inch
LT = Less than
ND = Not detected. Result value is less than reporting limit (RL).

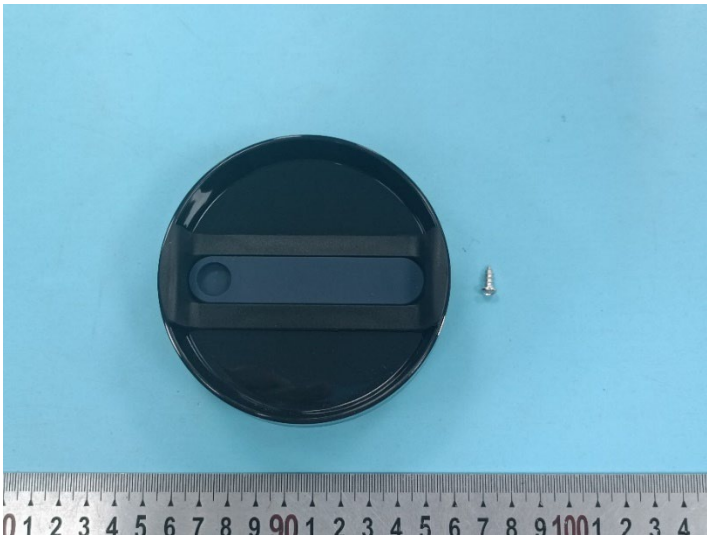
Remark:
The specification is quoted from 21 CFR 181.32 (b) (3).

Specimen description

Specimen #	Specimen description	Location
1	Transparent black plastic	Lid (navy style)
2	Black plastic	Rotating lid (navy style)
3	Navy soft plastic	Straw hole of Rotating lid (navy style)
4	Black soft plastic	Sealing ring (navy style)
5	Offwhite coated silvery metal	Interior (navy style)
6	Silvery metal	Interior (navy style)
7	Navy coating	Exterior (navy style)
8	Silvery metal	Exterior (navy style)
9	Black plastic	Straw (navy style)
10	Black plastic	Handle (navy style)
11	Silvery metal	Screw (navy style)
12	Black soft plastic with glue	Bottom (navy style)
13	Black soft plastic	Straw hole of Rotating lid (black style)
14	Taupe soft plastic	Straw hole of Rotating lid (taupe style)
15	Offwhite soft plastic	Straw hole of Rotating lid (cream style)
16	Black coating	Exterior (black style)
17	Taupe coating	Exterior (taupe style)
18	Cream coating	Exterior (cream style)
19	Offwhite ink	Raw material

Pictures

Sample photo:



End of the report