

# **TEST REPORT**

Test Report # 23W-011377 Date of Report Issue: August 22, 2023

Date of Sample Received: August 7, 2023 Pages: Page 1 of 24

**CLIENT INFORMATION:** 

Company: Spector & Co.

Address: testing@spectorandco.com

**SAMPLE INFORMATION:** 

Description: 22 OZ / 650 ML Tritan single wall Tumbler with spill resistant

Assortment: BLK /WHT/SND/NVY

PO No.:

Item No./Name: DW700

Item Class: PERFECT STORM

Factory/Supplier: USN039 Country of Origin: China

Country of Distribution: Canada, United States
Testing Period: 08/11/2023-08/22/2023

**OVERALL RESULT:** 

PASS

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

QIMA (HANGZHOU) TESTING CO., LTD.

loremy. Xu

Jeremy Xu

RC-CSHZ-R063

Chemical Laboratory Supervisor

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Test(s) marked with ' $\phi$ ' was subcontracted to external laboratory.

神e te result(s) and conclusion(s) in this report relate only to the sample(s) as received and method /regulation section(s) tested as described herein. 機能機制用章 fit is not further specified in the report, the decision rule for stating conformity is based on the QIMA decision rule (https://www.aima.com/conditions-of-service#decisionRule).



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# **TEST RESULTS SUMMARY:**

RC-CSHZ-R063

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

CONCLUSION	TEST(S) CONDUCTED
PASS	California Proposition 65, Total Lead in Substrate Materials
Not Applicable	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 Substrate Materials
Not Applicable	Canadian Surface Coating Materials Regulations SOR/2016-193, Total Mercury in Paints and Surface Coatings
Not Applicable	Client's requirement, Total Nickel content
PASS	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 21 CFR 177.1210, Closures with Sealing Gaskets
PASS	FDA 21 CFR 177.1520, Polypropylene Homopolymers
PASS	FDA 21 CFR 177.2420, Polyester Resins, Cross-Linked
PASS	FDA 21 CFR 177.2600, Rubber



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### **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+5	3+4+9	7+8+10	12+13+15	14+19	Limit
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(mg/kg)
Total Lead (Pb)	ND	ND	ND	ND	ND	100
Conclusion	PASS	PASS	PASS	PASS	PASS	

Specimen No.	17+18+20					Limit
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(mg/kg)
Total Lead (Pb)	ND					100
Conclusion	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:

RC-CSHZ-R063

The specification is quoted from client's requirement.



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### **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+5	3+4+9	7+8+10	12+13+15	14+19	Limit
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(mg/kg)
Total Lead (Pb)	ND	ND	ND	ND	ND	90
Conclusion	PASS	PASS	PASS	PASS	PASS	

Specimen No.	17+18+20					Limit
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(mg/kg)
Total Lead (Pb)	ND					90
Conclusion	PASS					

Note:

mg/kg=Milligrams per kilogram)

LT = Less than

RC-CSHZ-R063

ND = Not detected (Reporting Limit = 15 mg/kg)

Composite results are based on specimen of least mass resulting in highest potential concentration.



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### **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+5	3+4+9	7+8+10	12+13+15	14+19	Limit
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(mg/kg)
Total Cadmium (Cd)	ND	ND	ND	ND	ND	75
Conclusion	PASS	PASS	PASS	PASS	PASS	

Specimen No.	17+18+20					Limit
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(mg/kg)
Total Cadmium (Cd)	ND					75
Conclusion	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:

RC-CSHZ-R063

The specification is quoted from client's requirement.



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### **DETAILED RESULTS:**

# Client's requirement, Bisphenol A content

Test Method: In-House Method

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

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

Specimen No.		5	7	8	9	Client's
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	limit (mg/kg)
Bisphenol A (BPA)	80-05-7	ND	ND	ND	ND	Not Detected
Conclus	ion	PASS	PASS	PASS	PASS	

Specimen No.		10	12	13	14	Client's
Tost Itom	CAS No.	Result	Result	Result	Result	limit
Test Item	CAS NO.	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Bisphenol A (BPA)	80-05-7	ND	ND	ND	ND	Not Detected
Conclus	Conclusion		PASS	PASS	PASS	

Specimen No.		15	17	18	19	Client's
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	limit (mg/kg)
Bisphenol A (BPA)	80-05-7	ND	ND	ND	ND	Not Detected
Conclus	ion	PASS	PASS	PASS	PASS	

Note:

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mg/kg=milligram per kilogram

ND=Not Detected (Reporting limit = 1.0mg/kg)

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 $\textit{Test(s)} \ \textit{marked with '} \phi' \ \textit{was subcontracted to external laboratory}.$ 



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### **DETAILED RESULTS:**

# Client's requirement, Bisphenol A content

Test Method: In-House Method

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

Specimen No.		20				Client's
Tart Have	Result	Result	Result	Result	limit	
restitem	Test Item CAS No.	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Bisphenol A (BPA)	80-05-7	ND				Not Detected
Conclus	ion	PASS				

Note:

RC-CSHZ-R063

mg/kg=milligram per kilogram

ND=Not Detected (Reporting limit = 1.0mg/kg)



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### **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 N	0.	1+2+5	3+4+9	7+8+10	12+13+15	Limit
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(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	1	PASS	PASS	PASS	PASS	

Note:

RC-CSHZ-R063

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.



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### **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 N	0.	14+19	17+18+20			Limit
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(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	1	PASS	PASS			

Note:

RC-CSHZ-R063

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.



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### **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 N	0.	1+2+5	3+4+9	7+8+10	12+13+15	Limit
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(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	1	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:

RC-CSHZ-R063

The specification is quoted from client's requirement.



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### **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 N	0.	14+19	17+18+20			Limit
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(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	1	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:

RC-CSHZ-R063

The specification is quoted from client's requirement.



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### **DETAILED RESULTS:**

# Client's Requirement, Phthalates content

Test Method: CPSC-CH-C1001-09.4

Analytical Method: Gas Chromatography with Mass Spectrometry

Specimen No	o.	1+2+5	3+4+9	7+8+10	12+13+15	Limit
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(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

RC-CSHZ-R063

ND = Not detected (Reporting Limit = 150 mg/kg)

Composite results are based on specimen of least mass resulting in highest potential concentration.

Test(s) marked with ' $\phi$ ' was subcontracted to external laboratory.



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### **DETAILED RESULTS:**

# Client's Requirement, Phthalates content

Test Method: CPSC-CH-C1001-09.4

Analytical Method: Gas Chromatography with Mass Spectrometry

Specimen No	).	14+19	17+18+20			Limit
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(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

RC-CSHZ-R063

ND = Not detected (Reporting Limit = 150 mg/kg)

Composite results are based on specimen of least mass resulting in highest potential concentration.

Test(s) marked with ' $\phi$ ' was subcontracted to external laboratory.



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### **DETAILED RESULTS:**

# FDA 21 CFR 177.1210, Closures with Sealing Gaskets

Test Method: FDA 21 CFR 177.1210

Specim	4				
Test Item	Test Condition		Result	RL	Limit
restitem	Temp.	Duration	Result		
Distilled water extractive (mg/kg)	Fill boiling	Cooling to 100°F	ND	10	50
n-Heptane extractive (mg/kg)	120°F	0.25hours	ND	10	50
8% Ethanol extractive (mg/kg)	Fill boiling	Cooling to 100°F	ND	10	50
Conclu	usion		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:

RC-CSHZ-R063

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



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### **DETAILED RESULTS:**

# FDA 21 CFR 177.1520, Polypropylene Homopolymers

Test Method: FDA 21 CFR 177.1520

Specim	1				
Test Item	Test Condition		Result	RL	Limit
restitem	Temp.	Duration	Result		
Density (g/cc)	NA	NA	0.892	NA	0.880 -
Defisity (g/cc)	INA	IVA		IVA	0.913
Melting point (°C)	NA	NA	169	NA	150 – 180
n-Hexane extractive (% w/w)	Reflux	2 hours	0.7	0.1	6.4
Xylene extractive (% w/w)	Reflux	2 hours	1.7	0.5	9.8
Concl	usion		PASS		

Specim	2				
Test Item	Test C	Test Condition		RL	Limit
restitem	Temp.	Duration	Result		
Donsity (g/cc)	NA	NA	0.889	NA	0.880 -
Density (g/cc)	INA	INA	0.889	IVA	0.913
Melting point (°C)	NA	NA	168	NA	150 – 180
n-Hexane extractive (% w/w)	Reflux	2 hours	0.8	0.1	6.4
Xylene extractive (% w/w)	Reflux	2 hours	0.7	0.5	9.8
Conc	Conclusion				

### 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:

RC-CSHZ-R063

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

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Test(s) marked with ' $\phi$ ' was subcontracted to external laboratory.



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### **DETAILED RESULTS:**

# FDA 21 CFR 177.1520, Polypropylene Homopolymers

Test Method: FDA 21 CFR 177.1520

Specim	7				
Test Item	Test C	Condition	Result	RL	Limit
restitem	Temp.	Duration	Result		
Density (g/cc)	NA	NA	0.891	NA	0.880 -
Defisity (g/cc)	IVA	INA		IVA	0.913
Melting point (°C)	NA	NA	165	NA	150 – 180
n-Hexane extractive (% w/w)	Reflux	2 hours	0.7	0.1	6.4
Xylene extractive (% w/w)	Reflux	2 hours	0.5	0.5	9.8
Concl	usion		PASS		

Specim	8				
Test Item	Test Condition		Pocul+	RL	Limit
restitem	Temp.	Duration	Result		
Density (g/cc)	NA	NA	0.892	NA	0.880 -
Density (g/cc)	IVA	INA		IVA	0.913
Melting point (°C)	NA	NA	167	NA	150 – 180
n-Hexane extractive (% w/w)	Reflux	2 hours	0.4	0.1	6.4
Xylene extractive (% w/w)	Reflux	2 hours	4.3	0.5	9.8
Concl	Conclusion				

### 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:

RC-CSHZ-R063

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

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Test(s) marked with ' $\phi$ ' was subcontracted to external laboratory.



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### **DETAILED RESULTS:**

# FDA 21 CFR 177.1520, Polypropylene Homopolymers

Test Method: FDA 21 CFR 177.1520

Specim	12				
Test Item	Test Condition		Result	RL	Limit
restitem	Temp.	Duration	Result		
Density (g/cc)	NA	NA	0.899	NA	0.880 -
Defisity (g/cc)	INA	IVA		IVA	0.913
Melting point (°C)	NA	NA	165	NA	150 – 180
n-Hexane extractive (% w/w)	Reflux	2 hours	0.3	0.1	6.4
Xylene extractive (% w/w)	Reflux	2 hours	1.5	0.5	9.8
Concl	usion	Conclusion			

Specimen No.			13		
Tost Itom	Test C	Condition	Docult	RL	Limit
Test Item	Temp.	Duration	Result		
Dansity (g/cc)	/cc) NA NA		0.890	NA	0.880 -
Density (g/cc)	NA	IVA	0.830	IVA	0.913
Melting point (°C)	NA	NA	165	NA	150 – 180
n-Hexane extractive (% w/w)	Reflux	2 hours	0.3	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:

RC-CSHZ-R063

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

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Test(s) marked with ' $\phi$ ' was subcontracted to external laboratory.



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### **DETAILED RESULTS:**

# FDA 21 CFR 177.1520, Polypropylene Homopolymers

Test Method: FDA 21 CFR 177.1520

Specimen No.			17		
Toot Itom	Test C	Condition	Docult	RL	Limit
Test Item	Temp.	Duration	Result		
Density (g/cc)	NA	NA	0.896	NA	0.880 -
Defisity (g/cc)	IVA	IVA	0.030	IVA	0.913
Melting point (°C)	NA	NA	166	NA	150 – 180
n-Hexane extractive (% w/w)	Reflux	2 hours	0.8	0.1	6.4
Xylene extractive (% w/w)	Reflux	2 hours	1.1	0.5	9.8
Conclusion			PASS		

Specimen No.			18		
Test Item	Test C	Condition	Result	RL	Limit
restitem	Temp.	Duration	Result		
Density (g/cc)	Density (g/cc) NA NA		0.885	NA	0.880 -
Density (g/cc)	NA	INA	0.883	IVA	0.913
Melting point (°C)	NA	NA	165	NA	150 – 180
n-Hexane extractive (% w/w)	Reflux	2 hours	0.9	0.1	6.4
Xylene extractive (% w/w)	Reflux	2 hours	2.8	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:

RC-CSHZ-R063

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

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### **DETAILED RESULTS:**

# FDA 21 CFR 177.2420, Polyester Resins, Cross-Linked

Test Method: FDA 21 CFR 177.2420

Specimen No	6				
Tost Itam	Test Condition		D II	RL	Limit
Test Item	Temp.	Duration	Result		
Distilled water extractive (mg/in²)	Fill boiling	Cooling to 100°F	ND	0.01	0.1
n-Heptane extractive (mg/in²)	120°F	0.25hours	0.01	0.01	0.1
Conclusion			PASS		

Specimen No.			11		
Test Item Te		Test Condition		RL	Limit
Test item	Temp.	Duration	Result		
Distilled water extractive (mg/in²)	Fill boiling	Cooling to 100°F	ND	0.01	0.1
n-Heptane extractive (mg/in²)	120°F	0.25hours	ND	0.01	0.1
Conclusion			PASS		

# Note:

Temp. = Temperature

°F = Degree Fahrenheit

mg/in<sup>2</sup> = Milligrams per square inch

LT = Less than

ND = Not detected. Result value is less than reporting limit (RL).

#### Remark:

RC-CSHZ-R063

The specification is quoted from 21 CFR 177.2420 (c).



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### **DETAILED RESULTS:**

# FDA 21 CFR 177.2420, Polyester Resins, Cross-Linked

Test Method: FDA 21 CFR 177.2420

Specimen No.			16		
Toot Itom	Test Condition		D II	RL	Limit
Test Item	Temp.	Duration	Result		
Distilled water extractive (mg/in²)	Fill boiling	Cooling to 100°F	ND	0.01	0.1
n-Heptane extractive (mg/in²)	120°F	0.25hours	ND	0.01	0.1
Conclusion			PASS		

Specimen No.			21		
Test there Test Condition		Dogult	RL	Limit	
Test Item	Temp.	Duration	Result		
Distilled water extractive (mg/in²)	Fill boiling	Cooling to 100°F	ND	0.01	0.1
n-Heptane extractive (mg/in²)	120°F	0.25hours	ND	0.01	0.1
Conclusion			PASS		

# Note:

Temp. = Temperature

°F = Degree Fahrenheit

mg/in<sup>2</sup> = Milligrams per square inch

LT = Less than

ND = Not detected. Result value is less than reporting limit (RL).

#### Remark:

RC-CSHZ-R063

The specification is quoted from 21 CFR 177.2420 (c).



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### **DETAILED RESULTS:**

# FDA 21 CFR 177.2600, Rubber

Test Method: FDA 21 CFR 177.2600

Specimen No.			3		
Test Item	Test Co	ndition	Result	RL	Limit
rest item	Temp.	Duration	Result		
Distilled water extractive (mg/in²)	Reflux	First	ND	2	20
Distilled water extractive (mg/m/)	Renux	7 hours	ND	2	20
Distilled water extractive (mg/in²)	Reflux	Succeeding	ND	0.1	1
Distilled water extractive (mg/in²)		2 hours		0.1	1
n-Hexane extractive (mg/in²)	Reflux	First	ND	15	175
in-nexame extractive (ing/iii )	Reliux	7 hours	ND	15	1/5
n Hoyana oytrastiya (mg/in²)	Reflux	Succeeding	0.7	0.4	4
n-Hexane extractive (mg/in²)	Rellux	2 hours	0.7	0.4	4
Conclusion			PASS		

Specimen No.			9		
Test Item	Test Co	ndition	Result	RL	Limit
rest item	Temp.	Duration	Result		
Distilled water extractive (mg/in²)	Reflux	First 7 hours	ND	2	20
Distilled water extractive (mg/in²)	Reflux	Succeeding 2 hours	ND	0.1	1
n-Hexane extractive (mg/in²)	Reflux	First 7 hours	ND	15	175
n-Hexane extractive (mg/in²)	Reflux	Succeeding 2 hours	0.6	0.4	4
Conclusion			PASS		

### Note:

Temp. = Temperature

mg/in<sup>2</sup> = Milligrams per square inch

LT = Less than

ND = Not detected. Result value is less than reporting limit (RL).

# Remark:

RC-CSHZ-R063

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

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### **DETAILED RESULTS:**

# FDA 21 CFR 177.2600, Rubber

Test Method: FDA 21 CFR 177.2600

Specimen No.			14		
Test Item	Test Co	ndition	Result	RL	Limit
restitem	Temp.	Duration	Result		
Distilled water extractive (mg/in²)	Reflux	First	ND	2	20
Distilled water extractive (mg/m/)	Renux	7 hours	ND	2	20
Distilled water extractive (mg/in²)	Reflux	Succeeding	ND	0.1	1
Distilled water extractive (Hig/III )		2 hours		0.1	1
n-Hexane extractive (mg/in²)	Reflux	First	ND	15	175
in-nexame extractive (ing/iii )	Reliux	7 hours	ND	15	1/5
n Hoyana oytractiva (mg/in²)	Reflux	Succeeding	0.5	0.4	4
n-Hexane extractive (mg/in²)	Rellux	2 hours	0.5	0.4	4
Conclusion			PASS		

Specimen No.			19		
Test Item	Test Condition		Result	RL	Limit
restitem	Temp.	Duration	Result		
Distilled water extractive (mg/in²)	Reflux	First	ND	2	20
		7 hours			
Distilled water extractive (mg/in²)	Reflux	Succeeding	ND	0.1	1
Distilled water extractive (mg/m/)		2 hours		0.1	
n Hayana aytractiya (mg/in²)	Reflux	First	ND	15	175
n-Hexane extractive (mg/in²)	Renux	7 hours	ND	15	175
n Hayana aytuatiya (mag/in²)	Dofley	Succeeding	0.0	0.4	4
n-Hexane extractive (mg/in²)	Reflux	2 hours	0.8	0.4	4
Conclusion			PASS		

### Note:

Temp. = Temperature

mg/in<sup>2</sup> = Milligrams per square inch

LT = Less than

ND = Not detected. Result value is less than reporting limit (RL).

# Remark:

RC-CSHZ-R063

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

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# **SPECIMEN DESCRIPTION:**

检验检测专用章

RC-CSHZ-R063

Specimen No.	Specimen Description	Location
1	Navy plastic	Straw (navy style)
2	Navy plastic	Lid (navy style)
3	Navy soft plastic	Straw hole (navy style)
4	Translucent soft plastic	Sealing ring (all styles)
5	Transparent navy plastic	Main body (navy style)
6	Transparent navy plastic	Interior (navy style)
7	Brown plastic	Straw (brown style)
8	Brown plastic	Lid (brown style)
9	Brown soft plastic	Straw hole (brown style)
10	Transparent brown plastic	Main body (brown style)
11	Transparent brown plastic	Interior (brown style)
12	Black plastic	Straw (black style)
13	Black plastic	Lid (black style)
14	Black soft plastic	Straw hole (black style)
15	Transparent black plastic	Main body (black style)
16	Transparent black plastic	Interior (black style)
17	White plastic	Straw (white style)
18	White plastic	Lid (white style)
19	White soft plastic	Straw hole (white style)
20	Transparent plastic	Main body (white style)
21	Transparent plastic	Interior (white style)



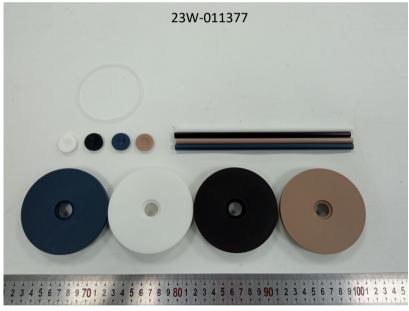


Test Report #: 23W-011377

# **SAMPLE PHOTO:**

RC-CSHZ-R063





-End Report-

Test(s) marked with ' $\phi$ ' was subcontracted to external laboratory.