

TEST REPORT

Test Report # 21W-009513 Date of Report Issue: July 9, 2021 Date of Sample Received: June 17, 2021 Pages: Page 1 of 37

CLIENT INFORMATION:

Company: Spector & Co.

Address: -

SAMPLE INFORMATION:

Description: RENEW MINI BACKPACK

Assortment: NOMAD MUST HAVE

Model/style No.: BGR101

PO No.: Po 71761 & 31738

SKU No.:

Item No./Item Name:

Factory/Supplier: USB059
Country of Origin: China

Country of Distribution: United States, Canada

Testing Period: 06/21/2021-06/29/2021,07/05/2021-07/09/2021

OVERALL RESULT:

PPASS with information

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

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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
PASS	Canadian Consumer Products Containing Lead Regulations (SOR/2018-83), Total Lead Content
N/A	Canadian Surface Coating Materials Regulations SOR/2016-193, Total Lead and Mercury in Paints and Surface Coatings
PASS	California Proposition 65, Total Cadmium in Substrate Materials
Information only	Client's requirement, Total Nickel content
Information only	Client's Requirement, Total Tungsten 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	Color Fastness to Water
PASS	Color Fastness to Crocking
PASS	Color Fastness to Light
Information only	Dimensions
Information only	Article Weight
PASS	Defects
PASS	Workmanship
Information only	Fabric Weight Per Unit Area
PASS	Tensile Strength
PASS	Tearing Strength
PASS	Seam Strength
PASS	Abrasion Resistance
PASS	Pilling Resistance
PASS	Water Repellency-Spray Test
PASS	Water Resistance-Rain Test
PASS	SOR/2016-194 and Method F01 Flammability of Textile Products
Information only	Fiber Content



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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+3+4	5	6	7+8+9	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.	10	11	12	13	14	Limit
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(mg/kg)
Total Lead (Pb)	ND	21	33	49	38	100
Conclusion	PASS	PASS	PASS	PASS	PASS	

Specimen No.	15	16	17	18	19+20+22	Limit
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(mg/kg)
Total Lead (Pb)	20	26	17	22	21	100
Conclusion	PASS	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.

Remark:

The specification is quoted from client's requirement.



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Cnaciman Na	Transferro	- Date of Issue	
Specimen No.	Report No.	Specimen No.	Date of issue
7+8+9	21W-008406	9+10+11	June 24, 2021
11	21W-008406	33	June 24, 2021
12	21W-008406	34	June 24, 2021
13	21W-008406	35	June 24, 2021
14	21W-008406	38	June 24, 2021
15	21W-008406	39	June 24, 2021
16	21W-008406	40	June 24, 2021
17	21W-008406	41	June 24, 2021
18	21W-008406	42	June 24, 2021
19+20+22	21W-008406	46+47+49	June 24, 2021



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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.	21	23	24	25		Limit
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(mg/kg)
Total Lead (Pb)	35	ND	ND	ND		100
Conclusion	PASS	PASS	PASS	PASS		

Note:

mg/kg =Milligrams per kilogram

LT = Less than

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

Remark:

The specification is quoted from client's requirement.

Spacimon No	Transferre	Date of Issue	
Specimen No.	Report No.	Specimen No.	Date of issue
21	21W-008406	48	June 24, 2021
24	21W-009545	44	June 24, 2021
25	21W-008406	53	June 24, 2021



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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	6	10	11	12	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	21	33	90
Conclusion	PASS	PASS	PASS	PASS	PASS	

Specimen No.	13	14	15	16	17	Limit
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(mg/kg)
Total Lead (Pb)	49	38	20	26	17	90
Conclusion	PASS	PASS	PASS	PASS	PASS	

Specimen No.	18	19+20+22	21	23	24	Limit
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(mg/kg)
Total Lead (Pb)	22	21	35	ND	ND	90
Conclusion	PASS	PASS	PASS	PASS	PASS	

Note:

RC-CSHZ-R063

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.



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Specimen No.	Transferre	Date of Issue		
Specimen No.	Report No.	Specimen No.	Date of issue	
11	21W-008406	33	June 24, 2021	
12	21W-008406	34	June 24, 2021	
13	21W-008406	35	June 24, 2021	
14	21W-008406	38	June 24, 2021	
15	21W-008406	39	June 24, 2021	
16	21W-008406	40	June 24, 2021	
17	21W-008406	41	June 24, 2021	
18	21W-008406	42	June 24, 2021	
19+20+22	21W-008406	46+47+49	June 24, 2021	
21	21W-008406	48	June 24, 2021	
24	21W-009545	44	June 24, 2021	



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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.	25					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

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

Spacimon No	Transferre	Date of Issue		
Specimen No.	Report No. Specimen No.		Date of issue	
25	21W-008406	53	June 24, 2021	



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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+3+4	5	6	7+8+9	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.	10	11	12	13	14	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.	15	16	17	18	19+20+22	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	

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.



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Specimen No.	Transfer	Transferred from			
Specimen No.	Report No.	Specimen No.	Date of Issue		
7+8+9	21W-008406	9+10+11	June 24, 2021		
11	21W-008406	33	June 24, 2021		
12	21W-008406	34	June 24, 2021		
13	21W-008406	35	June 24, 2021		
14	21W-008406	38	June 24, 2021		
15	21W-008406	39	June 24, 2021		
16	21W-008406	40	June 24, 2021		
17	21W-008406	41	June 24, 2021		
18	21W-008406	42	June 24, 2021		
19+20+22	21W-008406	46+47+49	June 24, 2021		



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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.	21	23	24	25		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		75
Conclusion	PASS	PASS	PASS	PASS		

Note:

mg/kg =Milligrams per kilogram

LT = Less than

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

Remark:

The specification is quoted from client's requirement.

Spacimon No	Transferre	Date of Issue	
Specimen No.	Report No. Specimen No.		
21	21W-008406	48	June 24, 2021
24	21W-009545	44	June 24, 2021
25	21W-008406	53	June 24, 2021



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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.	11+12+13	14+18+21	15+16+17			Limit
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(mg/kg)
Total Nickel(Ni)	60230	7335	4740			
Conclusion	Information only	Information only	Information only			

Note:

RC-CSHZ-R063

mg/kg = Milligrams per kilogram

ND = Not detected (report limit = 30mg/kg)

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

Specimen No.	Transferre	Date of Issue		
Specimen No.	Report No.	Specimen No.	Date of Issue	
11+12+13	21W-008406	33+34+35	June 24, 2021	
15+16+17	21W-008406	39+40+41	June 24, 2021	



Test Report # 21W-009513 Pages: Page 13 of 37

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.	11+12+13	14+18+21	15+16+17			Limit
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(mg/kg)
Total Tungsten (W)	ND	52	ND			
Conclusion	Information only	Information only	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.

Specimen No	Transferre	Date of Issue		
Specimen No.	Report No.	Specimen No.	Date of Issue	
11+12+13	21W-008406	33+34+35	June 24, 2021	
15+16+17	21W-008406	39+40+41	June 24, 2021	



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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 No.		1	6	10	19+20+22	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	156	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:

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.

Specimen No.	Transferre	Date of Issue	
	Report No.	Specimen No.	Date of issue
19+20+22	21W-008406	46+47+49	June 24, 2021



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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.	23	24	25		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		1000
Benzyl butyl phthalate (BBP)	85-68-7	ND	ND	ND		1000
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	ND	ND		1000
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	ND		1000
Di-n-hexyl phthalate (DHEXP / DnHP)	84-75-3	ND	ND	ND		1000
Dicyclohexyl phthalate (DCHP)	84-61-7	ND	ND	ND		1000
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND		1000
Di-n-pentyl phthalate (DPENP)	131-18-0	ND	ND	ND		1000
Conclusion	1	PASS	PASS	PASS		

Note:

mg/kg = Milligrams per kilogram

LT = Less than

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

Spacimon No.	Transferre	Date of Issue	
Specimen No.	Report No.	Report No. Specimen No.	
24	21W-009545	44	June 24, 2021
25	21W-008406	53	June 24, 2021



Test Report # 21W-009513 Pages: Page 16 of 37

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	lo.	1	2+3+4	5	6	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	n	PASS	PASS	PASS	PASS	

Note:

mg/kg (Milligrams per kilogram) = 0.0001 % m/m (Percent by mass)

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.



Test Report # 21W-009513 Pages: Page 17 of 37

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	Specimen No.		10	19+20+22	23	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	156	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 % m/m (Percent by mass)

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.

Cnocimon No	Transferre	Date of Issue	
Specimen No.	Report No.	Specimen No.	Date of issue
7+8+9	21W-008406	9+10+11	June 24, 2021
19+20+22	21W-008406	46+47+49	June 24, 2021



Test Report # 21W-009513 Pages: Page 18 of 37

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.		24	25			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 % m/m (Percent by mass)

LT = Less than

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

Remark.

The specification is quoted from client's requirement.

Specimen No.	Transferre	Date of Issue	
	Report No.	Specimen No.	Date of issue
24	21W-009545	44	June 24, 2021
25	21W-008406	53	June 24, 2021



Test Report # 21W-009513 Pages: Page 19 of 37

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	5	6	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 % m/m (Percent by mass)

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.



Test Report # 21W-009513 Pages: Page 20 of 37

DETAILED RESULTS:

Client's Requirement, Phthalates content

Test Method: CPSC-CH-C1001-09.4

Analytical Method: Gas Chromatography with Mass Spectrometry

Specimen No).	7+8+9	10	19+20+22	23	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	156	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 % m/m (Percent by mass)

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.



Test Report # 21W-009513 Pages: Page 21 of 37

Specimen No.	Transferre	Date of Issue	
	Report No.	Specimen No.	Date of issue
7+8+9	21W-008406	9+10+11	June 24, 2021
19+20+22	21W-008406	46+47+49	June 24, 2021



Test Report # 21W-009513 Pages: Page 22 of 37

DETAILED RESULTS:

Client's Requirement, Phthalates content

Test Method: CPSC-CH-C1001-09.4

Analytical Method: Gas Chromatography with Mass Spectrometry

Specimen No).	24	25			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 % m/m (Percent by mass)

LT = Less than

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

Remark:

The specification is quoted from client's requirement.



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Specimen No	Transferre	Date of Issue	
Specimen No.	Report No.	Specimen No.	Date of issue
24	21W-009545	44	June 24, 2021
25	21W-008406	53	June 24, 2021



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DETAILED RESULTS:

Color Fastness to Water

Test Method: AATCC 107-2013

Specimen No.	26-Mesh fabric	26- Stripe lining	26-Black shell	26-Belt		Client's
Items	Result (Grade)	Result (Grade)	Result (Grade)	Result (Grade)	Result (Grade)	requirement
Change in shade	4.5	4.5	4.5	4.5		-
Staining on multi- fiber stripe						
-Acetate	4.5	3.5	4.5	4.5		Min. 3.5
-Cotton	4.5	4.5	4.5	4.5		Min. 3.5
-Nylon	4.5	3.5	4.5	4.5		Min. 3.5
-Polyester	4.5	4.5	4.5	4.5		Min. 3.5
-Acrylic	4.5	4.5	4.5	4.5		Min. 3.5
-Wool	4.5	4.5	4.5	4.5		Min. 3.5
Self staining	-	4.5	-	-		Min. 3.5
Conclusion	PASS	PASS	PASS	PASS		-

Remark: Grey scale rating is based on the 5-step of 1 to 5, where 1 is bad and 5 is good.

Color Fastness to Crocking

Test Method: AATCC 8-2016

Specimen No.	26- Mesh fabric	26-Stripe lining	26-Black shell	26-Belt		Client's
Items	Result	Result	Result	Result	Result	requirement
items	(Grade)	(Grade)	(Grade)	(Grade)	(Grade)	
Dry staining	4.5	4.5	4.5	4.5		Min. 4.0
Wet staining	4.5	4.5	4.5	4.5		Min. 2.5
Conclusion	PASS	PASS	PASS	PASS		-

Remark: Grey Scale rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good.



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DETAILED RESULTS:

Color Fastness to Light

Test Method: AATCC 16.3-2014; Option 3; Xenon Arc Lamp.

Specimen No.	26-Mesh fabric	26-Stripe lining	26-Black shell	26-Belt		Client's
Items	Result (Grade)	Result (Grade)	Result (Grade)	Result (Grade)	Result (Grade)	requirement
After 20 AFU Change in shade	4.5	4.5	4.5	4.5		Min. 4.0
Conclusion	PASS	PASS	PASS	PASS		-

Remarks: Grey scale rating is based on the 5-step of 1 to 5, where 1 is bad and 5 is good.

Dimensions

Test Method: IHTM, Standard Measure

Specimen No.	26					
Items	Result (cm)	Result (cm)	Result (cm)	Result (cm)	Result (cm)	Requirement
Length	40					N/A
Width	26					N/A
Height	13					N/A
Conclusion	Information only					

Article Weight

Test Method: With reference to IHTM-TXHZ-010

Specimen No.	26				
Items	Client's requirement	Result	Conclusion		
Article Weight (g/piece)	N/A	417	Information only		



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DETAILED RESULTS:

Defects

Test Method: ASTM D3990 – 12(2016); Visual Examination

Specimen No.	26	Paguirament	
Item	Result	Requirement	
Observation	No major defect	Satisfactory	
Conclusion	PASS	-	

Workmanship

Test Method: IHTM; Visual Examination

Specimen No.	26	- Requirement	
Item	Result		
Observation	No major poor workmanship	Satisfactory	
Conclusion	PASS	-	

Fabric Weight Per Unit Area

RC-CSHZ-R063

Test Method: ASTM D3776/D3776M-20, Option C

Specimen No.	27	28				Client's
Items	Result	Result	Result	Result	Result	requirement
(g/m²)	421	77.5				N/A
(oz/yd²)	12.4	2.29				N/A
Conclusion	Information only	Information only				-



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DETAILED RESULTS:

Tensile Strength

Test Method: ASTM D5034-09(Reapproved 2017)

Specimen No.	27	Client's
Items	Result (lbf)	requirement (lbs)
Warp	318.7	Min. 25
Weft	191.8	Min. 25
Conclusion	PASS	-

Remark: All the warp and weft specimens were jaw broken.

Tensile Strength

RC-CSHZ-R063

Test Method: ASTM D5034-09(Reapproved 2017)

Specimen No.	28	Client's
Items	Result (lbf)	requirement (lbs)
Warp	150.4	Min. 25
Weft	100.5	Min. 25
Conclusion	PASS	-

Remark: All the weft specimens were jaw broken.



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DETAILED RESULTS:

Tearing Strength

Test Method: ASTM D1424-09(R2013); Elmendorf

Specimen No.	27	28				Client's
Items	Result	Result	Result	Result	Result	requirement
Warp yarns torn (Ibf)	>14.1	4.8				Min. 1.5
Weft yarns torn (Ibf)	13.6	4.2				Min. 1.5
Conclusion	PASS	PASS				-

Note:

- (1) Warp test test in which the warp yarns are torn. Weft test test in which the weft yarns are torn.
- (2) The maximum capacity of the tester is 14.1lbf.

Seam Strength

Test Method: With reference to ASTM D 1683/D1683M-17(R2018)

Specimen No.	26			
Items	Client's requirement	Result	Conclusion	
Side seam (Shell with lining)(lbf)	Min. 25	111.0 (S.T.B.)		
Bottom seam Length (Shell with lining)(lbf)	Min. 25	129.6 (S.T.B.)	PASS	
Bottom seam Width (Shell with lining)(lbf)	Min. 25	112.2 (S.T.B.)		

Remarks: S.T.B. = Sewing Thread Break



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DETAILED RESULTS:

Abrasion Resistance

Test Method: ASTM D4966-12^{ε1}, Option 1; Martindale Wear & Abrasion Tester; 12kPa Pressure

Specimen No.	27	29				Client's
Items	Result	Result	Result	Result	Result	requirement
End point (rubs)	>10000	>10000				Min. 10000
Conclusion	PASS	PASS				-

Pilling Resistance

Test Method: ASTM D3512/D3512M-16; After 30 min. tumbling in Random tumble Pilling Tester

Specimen No.	27	29				Client's
Items	Result	Result	Result	Result	Result	requirement
As received Rating	4.5	4.5				Min. 3.5
Conclusion	PASS	PASS				-

Remarks: Pilling Rating

RC-CSHZ-R063

- 5 No pilling/ No fuzzing
- 4 Slight pilling/Slight fuzzing
- 3 Moderate pilling/ Moderate fuzzing
- 2 Severe pilling/ Severe fuzzing
- 1 Very severe pilling/ Very severe fuzzing



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DETAILED RESULTS:

Water Repellency-Spray Test

Test Method: AATCC 22-2017; Spray Test – Tested under controlled condition, water temperature: 27±1°C

Specimen No.				
Items		Client's requirement		
items	Specimen 1#	Specimen 2#	Specimen 3#	
As received Rating	100	100	100	Min. 90
Conclusion	PASS			-

Remarks: Spray Rating

100 No sticking or wetting of specimen face

90 Slight random sticking or wetting of specimen face

80 Wetting of specimen face at spray points

70 Partial wetting of the specimen face beyond the spray points

50 Complete wetting of the entire specimen face beyond the spray points

O Complete wetting of the entire face of the specimen

Water Resistance - Rain Test

Test Method: AATCC 35-2018; Rain Test-600mm head Pressure; 2-min impact

Specimen No.		27			
ltoms	Result			Client's requirement	
Items	Specimen 1#	Specimen 2#	Specimen 3#	Average	·
As received Weight of blotter gained (g)	0.0	0.0	0.0	0.0	Max 1.0g
Conclusion		PASS			-



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DETAILED RESULTS:

SOR/2016-194 and Method F01 Flammability of Textile Products

Test Method: CAN/CGSB-4.2 No.27.5-2008

Specimen No.	26-Shell				
Preliminary Tests	<u>Fabric</u> <u>Surface</u>	- I SMOOTH I LEST SHECIMEN LIITECTION			Face Length
		Re	esult		
Items	As Reco	eived	After Dry-cleaning and Laundering*		Client's requirement
	Flame Spread (sec.)	<u>Burn Code</u>	Flame Spread (sec.)	<u>Burn Code</u>	
(1)	-	DNI	-	DNI	
(2)	-	DNI	-	DNI	
(3)	-	DNI	-	DNI	
(4)	-	DNI	-	DNI	
(5)	-	DNI	-	DNI	.25-
(6)	-	DNI	-	DNI	>3.5s
(7)	-	DNI	-	DNI	
(8)	-	DNI	-	DNI	
(9)	-	DNI	-	DNI	
(10)	-	DNI	-	DNI	
Conclusion			PASS		

^{*} Dry-cleaning / Laundering procedure is according to CAN/CGSB-4.2 No.30.3-94 & CAN/CGSB-4.2 No.58-2004; Machine wash at 50° C and tumble dry on the normal setting.

Burn Code Description:

RC-CSHZ-R063

DNI = Did not ignite;



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DETAILED RESULTS:

SOR/2016-194 and Method F01 Flammability of Textile Products

Test Method: CAN/CGSB-4.2 No.27.5-2008

Specimen No.	26-Lining				
Preliminary Tests	<u>Fabric</u> <u>Surface</u>	- I SMOOTH I LOST SHOCIMON DIFFECTION I			Face Length
		Re	esult		
Items	As Reco	eived	After Dry-cleaning and Laundering*		Client's requirement
	Flame Spread (sec.)	<u>Burn Code</u>	Flame Spread (sec.)	Burn Code	
(1)	-	DNI	-	DNI	
(2)	-	DNI	-	DNI	
(3)	-	DNI	-	DNI	
(4)	-	DNI	-	DNI	
(5)	-	DNI	-	DNI	.2.50
(6)	-	DNI	-	DNI	>3.5s
(7)	-	DNI	-	DNI	
(8)	-	DNI	-	DNI	
(9)	-	DNI	-	DNI	
(10)	-	DNI	-	DNI	
Conclusion			PASS		

^{*} Dry-cleaning / Laundering procedure is according to CAN/CGSB-4.2 No.30.3-94 & CAN/CGSB-4.2 No.58-2004; Machine wash at 50° C and tumble dry on the normal setting.

Burn Code Description:

RC-CSHZ-R063

DNI = Did not ignite;



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DETAILED RESULTS:

Fiber Content

Test Method: AATCC 20-2018

Specimen No.	26-Shell			
Items	Client's requirement	Result	Conclusion	
Polyester (%)	N/A	100	Information only	

Specimen No.	26-Lining			
Items	Client's requirement Result Conclusio			
Polyester (%)	N/A	100	Information only	



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SPECIMEN DESCRIPTION:

RC-CSHZ-R063

Specimen No.	Specimen Description	Location
1	Black coated black textile	Main body
2	Black printed white textile	Lining
3	Black textile	Inner edge
4	Black/white textile	Woven label
5	Black mesh textile	Shoulder straps
6	Dark grey foam	Filler of shoulder straps
7	Black textile	Belt of shoulder straps
8	Black textile	String
9	Black textile	Wide elastic
10	Black soft plastic	Wide elastic
11	Silvery metal	Сар
12	Silvery metal	Stud
13	Silvery metal	Socket
14	Silvery metal	Frame of square adjusting buckle
15	Silvery metal	Needle of square adjusting buckle
16	Silvery metal	Cylinder of square adjusting buckle
17	Silvery metal	Eyelet
18	Silvery metal	Eyelet base
19	Black plastic	Body of small adjusting buckle
20	Black plastic	Button of small adjusting buckle
21	Silvery metal	Spring of small adjusting buckle
22	Black plastic	Big adjusting buckle
23	Black plastic	Tail of string
24	Black soft plastic	Belt
25	White foam	Filler of main body
26	Renew mini backpack	Finished product
27	Black shell fabric	Raw material
28	Stripe lining fabric	Raw material
29	Strap mesh fabric	Raw material

* Email: Labtesting@qima.com * Tel: (86) 571 8999 7158.

Test(s) marked with ' ϕ ' was subcontracted to external laboratory.



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SAMPLE PHOTO:







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SAMPLE PHOTO:

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SAMPLE PHOTO:



-End Report-