

TEST REPORT

Test Report # 21W-009514 Date of Report Issue: July 9, 2021 Date of Sample Received: June 17, 2021 Pages: Page 1 of 33

CLIENT INFORMATION:

Company: Spector & Co.

Address: -

SAMPLE INFORMATION:

Description: RENEW OVERNIGHTER BACKPACK

Assortment: NOMAD MUST HAVE

Model/style No.: BGR100

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:

P PASS with information

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

QIMA (HANGZHOU) TESTING CO., LTD.

oremy. Xu

QIMA (HANGZHOU) TESTING CO., LTD.

Alden. Xu

Jeremy Xu

Chemical Laboratory Supervisor

Aiden Xu

Textile Laboratory Supervisor



Test Report # 21W-009514 Pages: Page 2 of 33

TEST RESULTS SUMMARY:

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

CONCLUSION	TEST(S) CONDUCTED
PASS	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 and Mercury in Paints and Surface Coatings
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
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	Bursting Strength
PASS	Abrasion Resistance
PASS	Pilling Resistance
PASS	Water Repellency-Spray Test
PASS	Water Resistance-Rain Test
PASS	Zipper Strength
PASS	Zipper Operability

OU) TESTING CO., LTD. • 4-5/F A2 BLDG NO. 1213 HUOJU SOUTH ROAD PUYAN STREET BINJIANG DISTRICT HANGZHOU CHINA
• Email: Labtesting@qima.com • Tel: (86) 571 8999 7158.

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



Test Report # 21W-009514 Pages: Page 3 of 33

PASS	SOR/2016-194 and Method F01 Flammability of Textile Products
Information only	Fiber Content



Test Report # 21W-009514 Pages: Page 4 of 33

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.	9					Limit
Tost Itom	Result	Result	Result	Result	Result	(mg/kg)
Test Item	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(8/8/
Total Lead (Pb)	ND					90
Conclusion	PASS					

Note:

mg/kg =Milligrams per kilogram

LT = Less than

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

Remark:

The specification is quoted from client's requirement.



Test Report # 21W-009514 Pages: Page 5 of 33

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+7+17	6	8+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	ND	ND	ND	ND	100
Conclusion	PASS	PASS	PASS	PASS	PASS	

Specimen No.	10	11	12	13	15+16	Limit
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(mg/kg)
Total Lead (Pb)	ND	47	ND	ND	ND	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.

Consisson No	Transferre	Data of Issue	
Specimen No.	Report No. Specimen No		Date of Issue
6	21W-009510	2	June 24, 2021
10	21W-008406	16	June 24, 2021
11	21W-008406	17	June 24, 2021



Test Report # 21W-009514 Pages: Page 6 of 33

DETAILED RESULTS:

Canadian Surface Coating Materials Regulations SOR/2016-193, Total Lead and 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.	9					Total
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Limit (mg/kg)
Total Lead (Pb)	ND					90
Total Mercury (Hg)	ND					10
Conclusion	PASS					

Note:

mg/kg=Milligrams per kilogram

LT = Less than

ND = Not detected (Reporting Limit: Pb=15 mg/kg; Hg = 10 mg/kg)



Test Report # 21W-009514 Pages: Page 7 of 33

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	8+14	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	47	ND	90
Conclusion	PASS	PASS	PASS	PASS	PASS	

Specimen No.	13	15+16				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				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.

Specimen No	Transferre	Date of Issue	
Specimen No.	Report No.	Specimen No.	Date of issue
10	21W-008406	16	June 24, 2021
11	21W-008406	17	June 24, 2021



Test Report # 21W-009514 Pages: Page 8 of 33

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.	9					Limit
Tost Itom	Result	Result	Result	Result	Result	(mg/kg)
Test Item	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(8/8/
Total Cadmium (Cd)	ND					75
Conclusion	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.



Test Report # 21W-009514 Pages: Page 9 of 33

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+7+17	6	8+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.	10	11	12	13	15+16	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.

Consisson No	Transferre	Data of Issue	
Specimen No.	Report No.	Specimen No.	Date of Issue
6	21W-009510	2	June 24, 2021
10	21W-008406	16	June 24, 2021
11	21W-008406	17	June 24, 2021



Test Report # 21W-009514 Pages: Page 10 of 33

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.	10+11	12+13				Limit
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(mg/kg)
Total Nickel(Ni)	ND	ND				
Conclusion	Information only	Information only				

Note:

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	Data of Issue	
Specimen No.	Report No.	Specimen No.	Date of Issue
10+11	21W-008406	16+17	June 24, 2021



Test Report # 21W-009514 Pages: Page 11 of 33

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.	10+11	12+13				Limit
Test Item	Result	Result	Result	Result	Result	(mg/kg)
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
Total Tungsten (W)	40	87				
Conclusion	Information	Information				
	only	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	Data of Issue	
Specimen No.	Report No.	Specimen No.	Date of Issue
10+11	21W-008406	16+17	June 24, 2021



Test Report # 21W-009514 Pages: Page 12 of 33

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	8+14	9	15+16	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:

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.



Test Report # 21W-009514 Pages: Page 13 of 33

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+3+4	5+7+17	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	223	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.

Spacimon No	Transferre	Date of Issue		
Specimen No.	Report No. Specimen No.		- Date of Issue	
6	21W-009510	2	June 24, 2021	



Test Report # 21W-009514 Pages: Page 14 of 33

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.	8+14	9	15+16		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
Diisodecyl phthalate (DIDP)	26761-40-0 68515-49-1	ND	ND	ND		1000
Di-n-hexyl phthalate (DnHP)	84-75-3	ND	ND	ND		1000
Conclusion	1	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-009514 Pages: Page 15 of 33

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+7+17	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	223	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-009514 Pages: Page 16 of 33

Specimen No.	Transferre	Date of Issue	
	Report No.	Specimen No.	Date of Issue
6	21W-009510	2	June 24, 2021



Test Report # 21W-009514 Pages: Page 17 of 33

DETAILED RESULTS:

Client's Requirement, Phthalates content

Test Method: CPSC-CH-C1001-09.4

Analytical Method: Gas Chromatography with Mass Spectrometry

Specimen No).	8+14	9	15+16		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
Diisodecyl phthalate (DIDP)	26761-40-0 68515-49-1	ND	ND	ND		1000
Di-n-hexyl phthalate (DHEXP / DnHP)	84-75-3	ND	ND	ND		1000
Di-n-octyl phthalate (DNOP)	117-84-0	ND	ND	ND		1000
Diethyl phthalate (DEP)	84-66-2	ND	ND	ND		1000
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND		1000
Dicyclohexyl phthalate (DCHP)	84-61-7	ND	ND	ND		1000
Di-n-pentyl phthalate (DPENP/DnPP)	131-18-0	ND	ND	ND		1000
Conclusion		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-009514 Pages: Page 18 of 33

DETAILED RESULTS:

Color Fastness to Water

Test Method: AATCC 107-2013

Specimen No.	18-Shell	18-Belt	18-Lining net	18-Lining	18-Mesh fabric	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	4.5	-
Staining on multi- fiber stripe						
-Acetate	4.5	4.5	4.5	3.5	4.5	Min. 3.5
-Cotton	4.5	4.5	4.5	4.5	4.5	Min. 3.5
-Nylon	4.5	4.0	4.5	3.5	4.5	Min. 3.5
-Polyester	4.5	4.5	4.5	4.5	4.5	Min. 3.5
-Acrylic	4.5	4.5	4.5	4.5	4.5	Min. 3.5
-Wool	4.5	4.5	4.5	4.5	4.5	Min. 3.5
Self staining				4.5		Min. 3.5
Conclusion	PASS	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

RC-CSHZ-R063

Specimen No.	18-Shell	18-Belt	18-Lining net	18-Lining	18-Mesh fabric	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	4.5	Min. 4.0
Wet staining	4.0	4.5	4.5	4.5	4.5	Min. 2.5
Conclusion	PASS	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.



Test Report # 21W-009514 Pages: Page 19 of 33

DETAILED RESULTS:

Color Fastness to Light

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

Specimen No.	18-Shell	18-Belt	18-Lining net	18-Lining	18-Mesh fabric	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	4.5	Min. 4.0
Conclusion	PASS	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.	18					
Items	Result (cm)	Result (cm)	Result (cm)	Result (cm)	Result (cm)	Requirement
Length	48					N/A
Width	33					N/A
Height	18					N/A
Conclusion	Information only					

Article Weight

Test Method: With reference to IHTM-TXHZ-010

Specimen No.	18				
Items	Client's requirement	Result	Conclusion		
Article Weight (g/piece)	N/A	767	Information only		



Test Report # 21W-009514 Pages: Page 20 of 33

DETAILED RESULTS:

Defects

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

Specimen No.	18	Doguiroment	
Item	Result	Requirement	
Observation	No major defect	Satisfactory	
Conclusion	PASS	-	

Workmanship

Test Method: IHTM; Visual Examination

Specimen No.	18	Paguirament	
Item	Result	Requirement	
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.	19	20	22			Client's
Items	Result	Result	Result	Result	Result	requirement
(g/m²)	421	77.5	80.8			N/A
(oz/yd²)	12.4	2.29	2.38			N/A
Conclusion	Information only	Information only	Information only			-



Test Report # 21W-009514 Pages: Page 21 of 33

DETAILED RESULTS:

Tensile Strength

Test Method: ASTM D5034-09(Reapproved 2017)

Specimen No.	19	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.	20	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.



Test Report # 21W-009514 Pages: Page 22 of 33

DETAILED RESULTS:

Tearing Strength

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

Specimen No.	19	20				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.	18-Shell with lining			
Items	Client's requirement	Conclusion		
Side seam (lbf)	Min. 25	94.0 (S.T.B.)		
Bottom seam (Length) (lbf)	Min. 25	95.6 (S.T.B.)	PASS	
Bottom seam (Width) (lbf)	Min. 25	134.0 (Y.P.O.)		

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

Y.P.O. = Yarn Pull Out



Test Report # 21W-009514 Pages: Page 23 of 33

DETAILED RESULTS:

Bursting Strength

Test Method: ASTM D3786/D3786M-18; Hydraulic method, Test area: 7.3 cm².

Specimen No.	22				
Items	Client's requirement Result Conclusion				
Bursting Strength (P.S.I.)	Min. 40	119	PASS		

Abrasion Resistance

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

Specimen No.	19	21				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.	19	21				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

- 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

OU) TESTING CO., LTD. • 4-5/F A2 BLDG NO. 1213 HUOJU SOUTH ROAD PUYAN STREET BINJIANG DISTRICT HANGZHOU CHINA
• Email: Labtesting@qima.com • Tel: (86) 571 8999 7158.



Test Report # 21W-009514 Pages: Page 24 of 33

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#			
As received Rating	100	100	100	Min. 90
Conclusion		-		

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

RC-CSHZ-R063

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

Specimen No.		19				
Itams		Client's requirement				
Items	Specimen 1#	Specimen 2#	Average	·		
As received Weight of blotter gained (g)	0.0	0.0	0.0	0.0	Max 1.0g	
Conclusion		PASS				



Test Report # 21W-009514 Pages: Page 25 of 33

DETAILED RESULTS:

Zipper Strength

Test Method: ASTM D2061-07(R2013); type: M

Specimen No.	23	
Items	Result	Client's requirement
Chain Crosswise Strength Test (lbf)	214(Tape break)	Min. 175
Resistance to Pull-Off Slider Pull (lbf)	46.3(Puller break)	Min.35
Resistance to Twist of Pull and Slider Test Clockwise (lb. inch) Counter-Clockwise (lb. inch)	>7.8* >7.8*	Min.4
Conclusion	PASS	

Remark: *: The maximum capacity of the tester is 7.8 lb. inch

Zipper Strength

RC-CSHZ-R063

Test Method: ASTM D2061-07(R2013); type: M

Specimen No.	24			
Items	Result	Client's requirement		
Chain Crosswise Strength Test (lbf)	204.1(Tape break)	Min. 175		
Resistance to Pull-Off Slider Pull (lbf)	67.2(Puller break)	Min.35		
Resistance to Twist of Pull and Slider Test Clockwise (lb. inch) Counter-Clockwise (lb. inch)	4.7 5.2	Min.4		
Conclusion	PASS			



Test Report # 21W-009514 Pages: Page 26 of 33

DETAILED RESULTS:

Zipper Operability

RC-CSHZ-R063

Test Method: ASTM D2062-03(R2014)

Specimen No.	23	
Items	Result	Client's requirement
Chain opening (lbf)	0.5	Max. 2
Chain closing (lbf)	0.5	Max. 2
Conclusion	PASS	

Specimen No.	24	
Items	Result	Client's requirement
Chain opening (lbf)	0.6	Max. 2
Chain closing (lbf)	0.7	Max. 2
Conclusion	PASS	



Test Report # 21W-009514 Pages: Page 27 of 33

DETAILED RESULTS:

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

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

Specimen No.		18-Shell fabric				
Preliminary Tests	<u>Fabric</u> <u>Surface</u>	- I SMOOTH I LOST SHOCIMON DIFOCTION			Face Length	
		Re	esult			
Items	As Reco	eived	After Dry-cle Launde		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	.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:

DNI = Did not ignite;



Test Report # 21W-009514 Pages: Page 28 of 33

DETAILED RESULTS:

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

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

Specimen No.		18-Stripe fabric				
Preliminary Tests	<u>Fabric</u> <u>Surface</u>	Smooth	Smooth <u>Test Specimen Direction</u>			
		Re	esult			
Items	As Reco	eived	After Dry-cle Launde		Client's requirement	
	Flame Spread (sec.)	Burn Code	Flame Spread (sec.)	Burn Code		
(1)	-	DNI	-	DNI		
(2)	-	DNI	-	DNI		
(3)	-	DNI	-	DNI		
(4)	-	DNI	-	DNI		
(5)	-	DNI	-	DNI	.2.5	
(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;



Test Report # 21W-009514 Pages: Page 29 of 33

DETAILED RESULTS:

Fiber Content

Test Method: AATCC 20-2018

Specimen No.	18-Stripe lining		
Items	Client's requirement	Result	Conclusion
Polyester (%)	N/A	100	Information only

Specimen No.	19		
Items	Client's requirement	Result	Conclusion
Polyester (%)	N/A	100	Information only



Test Report # 21W-009514 Pages: Page 30 of 33

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 mesh textile	Lining
4	Black textile	Lining edge
5	Black textile	Zipper cloth
6	Black mesh textile	Shoulder girdle
7	Black textile	Handles/shoulder girdle
8	Black plastic	Zipper teeth
9	Black coating	Main zipper head
10	Silvery metal	Main zipper puller
11	Silvery metal	Main zipper slider
12	Silvery metal	Inner zipper puller
13	Silvery metal	Inner zipper slider
14	Black plastic	Adjustable buckle
15	White foam	Filler of back
16	Dark grey foam	Filler of shoulder girdle
17	Black/white textile	Woven label
18	Backpack	Finished product
19	Black shell fabric	Raw material
20	Stripe lining fabric	Raw material
21	Mesh fabric	Raw material
22	Lining net fabric	Raw material
23	Shell zipper	Raw material
24	Lining zipper	Raw material



Test Report # 21W-009514 Pages: Page 31 of 33

SAMPLE PHOTO:







Test Report # 21W-009514 Pages: Page 32 of 33

SAMPLE PHOTO:







Test Report # 21W-009514 Pages: Page 33 of 33

SAMPLE PHOTO:



-End Report-