

TEST REPORT

Test Report #	21W-009511	Date of Report Issue:	July 27, 2021
Date of Sample Received:	June 17, 2021	Pages:	Page 1 of 30
CLIENT INFORMATION:			
Company:	Spector & Co.		
Address:	-		Dian - D
SAMPLE INFORMATION:			
Description:	RENEW FLIP TOP BACK	PACK COOLER	
Assortment:	NOMAD MUST HAVE		
Model/style No.:	BGR102		
PO No.:	Po 71761 & 31738		
SKU No.:	-		
Item No./Item Name:	-		
Factory/Supplier:	USB059		
Country of Origin:	China		
Country of Distribution:	United States, Canada		

## **OVERALL RESULT:**

**Testing Period**:

## $\mathcal{P}$ PASS with information

06/21/2021-06/29/2021,07/01/2021-07/09/2021,07/21/2021-07/27/2021

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

QIMA (HANGZHOU) TESTING CO., LTD.

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Jeremy Xu Chemical Laboratory Supervisor

QIMA (HANGZHOU) TESTING CO., LTD.

Aden. Xu

Aiden Xu **Textile Laboratory Supervisor** 



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## **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 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+4+19	3	5+7	6+8+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	ND	ND	100
Conclusion	PASS	PASS	PASS	PASS	PASS	

Specimen No.	9	10	11	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	ND	ND	38	20	100
Conclusion	PASS	PASS	PASS	PASS	PASS	

Specimen No.	15	16	17	18	20+21	Limit
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(mg/kg)
Total Lead (Pb)	26	15	ND	53	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.

#### Data Consolidation Reference:

Specimen No.	Transferre	Data of Issue		
Specimen No.	Report No.	Specimen No.	Date of Issue	
3	21W-009510	2	June 24, 2021	
13	21W-008406	38	June 24, 2021	
14	21W-008406	39	June 24, 2021	
15	21W-008406	40	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+8+12	9	10	11	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.	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)	38	20	26	15	ND	90
Conclusion	PASS	PASS	PASS	PASS	PASS	

Specimen No.	18	20+21				Limit
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(mg/kg)
Total Lead (Pb)	53	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.

Data Consolidation Reference:

Specimen No.	Transferre	Date of Issue	
Specimen No.	Report No.	Specimen No.	Date of issue
13	21W-008406	38	June 24, 2021
14	21W-008406	39	June 24, 2021
15	21W-008406	40	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+4+19	3	5+7	6+8+12	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.	9	10	11	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	20+21	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.

#### Data Consolidation Reference:

Specimen No.	Transferre	Data of Issue		
Specimen No.	Report No.	Specimen No.	Date of Issue	
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14	21W-008406	39	June 24, 2021	
15	21W-008406	40	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.	13+14+15	16+17+18				Limit
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(mg/kg)
Total Nickel(Ni)	2816	40428				
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.



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## **DETAILED RESULTS:**

## **Client's Requirement, Total Tungsten content**

	US EPA 3052:1996 & US EPA 6010D:2014 Inductively Coupled Plasma-Optical Emission Spectrometry					
Specimen No.	13+14+15	16+17+18				Limit
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(mg/kg)
Total Tungsten (W)	ND	ND				
Conclusion	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.





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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-C1001-09.4Analytical Method:Gas Chromatography with Mass Spectrometry

Specimen N	0.	1	6+8+12	9	10	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
Conclusior	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.



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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-C1001-09.4Analytical Method:Gas Chromatography with Mass Spectrometry

Specimen N	0.	11	20+21			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
Conclusior	ı	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.



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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 No.		1	2+4+19	3	5+7	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	ı	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.

## Data Consolidation Reference:

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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 No.		6+8+12	9	10	11	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	า	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:

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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 No.		20+21				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				1000
Benzyl butyl phthalate (BBP)	85-68-7	ND				1000
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND				1000
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	ND				1000
Diisodecyl phthalate (DIDP)	26761-40-0 68515-49-1	ND				1000
Di-n-hexyl phthalate (DnHP)	84-75-3	ND				1000
Conclusior	ı	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:

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Test(s) marked with '\u03c6 ' 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	).	1	2+4+19	3	5+7	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:

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Test(s) marked with '\u03c6 ' 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	).	6+8+12	9	10	11	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.



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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	).	20+21				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				1000
Benzyl butyl phthalate (BBP)	85-68-7	ND				1000
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND				1000
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	ND				1000
Diisodecyl phthalate (DIDP)	26761-40-0 68515-49-1	ND				1000
Di-n-hexyl phthalate (DHEXP / DnHP)	84-75-3	ND				1000
Di-n-octyl phthalate (DNOP)	117-84-0	ND				1000
Diethyl phthalate (DEP)	84-66-2	ND				1000
Diisobutyl phthalate (DIBP)	84-69-5	ND				1000
Dicyclohexyl phthalate (DCHP)	84-61-7	ND				1000
Di-n-pentyl phthalate (DPENP/DnPP)	131-18-0	ND				1000
Conclusion		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.



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## **DETAILED RESULTS:**

#### **Color Fastness to Water**

Test Method: AATCC 107-2013

Specimen No.	22-Mesh	22-Lining	22-Shell	22-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	4.0		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.	22-Mesh	22-Lining	22-Shell	22-Belt		Client's
Items	Result (Grade)	Result (Grade)	Result (Grade)	Result (Grade)	Result (Grade)	requirement
Dry staining	4.5	4.5	4.5	4.0		Min. 4.0
Wet staining	4.5	4.5	4.0	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.	22-Mesh	22-Lining	22-Shell	22-Belt		Client's
ltems	Result	Result	Result	Result	Result	requirement
items	(Grade)	(Grade)	(Grade)	(Grade)	(Grade)	
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.	22					
ltems	Result (cm)	Result (cm)	Result (cm)	Result (cm)	Result (cm)	Requirement
Length	50					N/A
Width	40					N/A
Height	15					N/A
Conclusion	Information only					

## **Article Weight**

Test Method: With reference to IHTM-TXHZ-010

Specimen No.	22				
Items	Client's requirement	Result	Conclusion		
Article Weight (g/piece)	N/A	747	Information only		



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## **DETAILED RESULTS:**

## Defects

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

Specimen No.	22	Paquiramont
Item	Result	Requirement
Observation	on No major defect	
Conclusion	PASS	-

## Workmanship

Test Method: IHTM; Visual Examination

Specimen No.	22	Paguiramont	
Item	Result	Requirement	
Observation	Observation No major poor workmanship		
Conclusion PASS		-	

#### Fabric Weight Per Unit Area

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

Specimen No.	22-Stripe fabric	23	24			Client's
Items	Result	Result	Result	Result	Result	requirement
(g/m²)	151	421	77.5			N/A
(oz/yd²)	4.45	12.4	2.29			N/A
Conclusion	Information only	Information only	Information only			-



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## **DETAILED RESULTS:**

#### **Tensile Strength**

Test Method: ASTM D5034-09(Reapproved 2017)

Specimen No.	23	Client's
ltems	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**

Test Method: ASTM D5034-09(Reapproved 2017)

Specimen No.	24	Client's
ltems	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.	23	24				Client's
Items	Result	Result	Result	Result	Result	requirement
Warp yarns torn (Ibf)	>14.1	4.5				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.			
Items	Client's requirement	Result	Conclusion
Side seam (lbf)	Min. 25	82.1 (S.T.B.)	
Bottom seam (Length) (lbf)	Min. 25	63.8 (Y.P.O.)	PASS
Bottom seam (Width) (lbf)	Min. 25	85.6 (S.T.B.)	

Remarks:

S.T.B. = Sewing Thread Break Y.P.O. = Yarn Pull Out



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## **DETAILED RESULTS:**

#### **Abrasion Resistance**

Test Method: ASTM D4966-12<sup>ε1</sup>, Option 1; Martindale Wear & Abrasion Tester; 12kPa Pressure

Specimen No.	23	25				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.	23	25				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
- Moderate pilling/ Moderate fuzzing 3
- 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.		Client's requirement		
ltems				
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
- 0 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.	23				
ltems	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.	22-Shell fabric					
Preliminary Tests	<u>Fabric</u> Surface	Smooth	Test Specime	n Direction	Face Length	
		Result				
Items	As Received		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	>3.5s	
(3)	-	DNI	-	DNI		
(4)	-	DNI	-	DNI		
(5)	-	DNI	-	DNI		
(6)	-	DNI	-	DNI		
(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  $^\circ$ C and tumble dry on the normal setting.

## **Burn Code Description:**

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.	22-Stripe fabric					
Preliminary Tests	<u>Fabric</u> Surface	Smooth	Test Specime	n Direction	Face Length	
		Result				
Items	As Received		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	>3.5s	
(3)	-	DNI	-	DNI		
(4)	-	DNI	-	DNI		
(5)	-	DNI	-	DNI		
(6)	-	DNI	-	DNI		
(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  $^\circ$ C and tumble dry on the normal setting.

## **Burn Code Description:**

DNI

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#### **DETAILED RESULTS:**

#### **Fiber Content**

Test Method: AATCC 20-2018

Specimen No.	22-Shell			
ltems	Client's requirement	Result	Conclusion	
Polyester (%)	N/A	100	Information only	

Specimen No.	22-Lining			
ltems	Client's requirement	Result	Conclusion	
Polyester (%)	N/A	100	Information only	



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## **SPECIMEN DESCRIPTION:**

Specimen No.	Specimen Description	Location
1	Black coated black textile	Main body
2	Black printed white textile	Cover
3	Black mesh textile	Shoulder girdle
4	Black textile	Adjustable belt
5	Black textile	Pocket
6	Dark grey soft plastic	Pocket
7	Black textile	Inner edge of pocket
8	Grey soft plastic	Lining
9	Black plastic	Buckle pin
10	Black plastic	Buckle shell
11	Black plastic	Adjustable buckle
12	Black soft plastic	Adjustable strap
13	Silvery metal	Frame of square adjusting buckle
14	Silvery metal	Needle of square adjusting buckle
15	Silvery metal	Cylinder of square adjusting buckle
16	Silvery metal	Сар
17	Silvery metal	Stud
18	Silvery metal	Socket
19	Black/white textile	Woven label
20	White foam	Filler of main body
21	Dark grey foam	Filler of shoulder girdle
22	Backpack	Finished product
23	Black shell fabric	Raw material
24	Stripe lining fabric	Raw material
25	Black mesh fabric	Raw material



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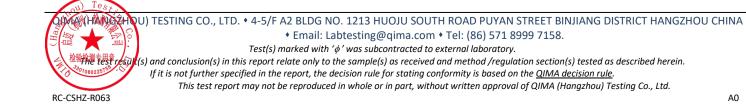
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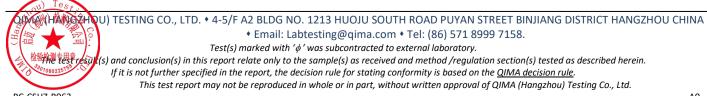


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-End Report-



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