Test report

23W-015711(A1)

Verify Report

Overall result — PASS with information

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

Client information

Client: SPECTOR & CO.

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

Sample information

Description:	NOMAD MUST HAVES COOLER BACKPACK		
Assortment:	CHL		
Item no./name:	BGR106	Purchase order #:	-
Item class:	ASHBURY BAG	Factory/supplier:	USG044
Country of origin:	China	Labeled age grade:	-
Country of distribution:	Canada, United States	Tested age grade:	-
Quantity submitted:	4 pcs		

General information

Sample receipt date:	07-Nov-2023	Report date:	30-Nov-2023
Testing period:	08-Nov-2023 to 15-Nov-2023, 28-Nov-2023 to 30-Nov-2023		

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Eric Liu

Lab Operation Director

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Result summary

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

Test(s) conducted	Conclusion
California Proposition 65, Total Lead in Paints and Surface Coatings	PASS
California Proposition 65, Total Lead in Substrate Materials	PASS
Canadian Surface Coating Materials Regulations SOR/2016-193, Total Lead in Stickers, Films and Surface Coating Materials	PASS
Canadian Consumer Products Containing Lead Regulations (SOR/2018-83), Total Lead Content	PASS
California Proposition 65, Total Cadmium in Paints and Surface Coatings	PASS
California Proposition 65, Total Cadmium in Substrate Materials	PASS
Canadian Surface Coating Materials Regulations SOR/2016-193, Total Mercury in Paints and Surface Coatings	PASS
Client's requirement, Total Nickel content	Information only
Client's Requirement, Total Tungsten content	Information only
US States Requirement, Per-and Polyfluoroalkyl Substances (PFAS) Content (Total Fluorine Method)	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 177.1520, Polyethylene Copolymer	PASS
FDA 21 CFR 177.1350, Ethylene-Vinyl Acetate Copolymers	PASS
Color Fastness to Water	PASS
Color Fastness to Crocking	PASS
Color Fastness to Light	PASS
Dimensions	Information only
Article Weight	Information only
Defects	PASS
Fabric Weight Per Unit Area	Information only
Tensile Strength	PASS
Tearing Strength	PASS
Seam Strength	PASS
Abrasion Resistance	PASS
Pilling Resistance	PASS
Zipper Strength	PASS

Test(s) conducted	Conclusion
Zipper Operability	PASS
SOR/2016-194-Textile Flammability Regulations-Non-bedding Textile	PASS
Fiber Content	PASS
19 CFR 134.11-Country of Origin-Labeling Review	PASS
Marking of Imported Goods Order, (C.R.C., c.535), Country of Origin	PASS
Charter of French Language, (R.S.Q., c.C-11), Province of Quebec Labeling	PASS
Client's Requirement for Static Load Test	PASS
Client-Performance Requirements-Heat Retention Test	Information only
Client-Performance Requirements-Cold Retention Test	Information only

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.	2	---	---	---	---	**Limit (mg/kg)**
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
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.

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.	3	4	5	6	7	**Limit (mg/kg)**
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Lead (Pb)	ND	ND	ND	ND	ND	**100**
Conclusion	PASS	PASS	PASS	PASS	PASS	

Specimen No.	8	---	---	---	---	**Limit (mg/kg)**
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Lead (Pb)	ND	---	---	---	---	**100**
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.

Data Consolidation Reference:

Specimen No.	Transferred from		Date of Issue
	Report No.	Specimen No.	
3	23W-015094(A1)	5	30-Nov-2023
7	23W-015094(A1)	13	30-Nov-2023

Detailed results

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

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

Specimen No.	2	---	---	---	---	**Total Limit (mg/kg)**
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (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)

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.	2	3	4	5	6	**Limit (mg/kg)**
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Lead (Pb)	ND	ND	ND	ND	ND	**90**
Conclusion	PASS	PASS	PASS	PASS	PASS	

Specimen No.	7	8	---	---	---	**Limit (mg/kg)**
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Lead (Pb)	ND	ND	---	---	---	**90**
Conclusion	PASS	PASS	---	---	---	

Note:
mg/kg=Milligrams per kilogram)
LT = Less than
ND = Not detected (Reporting Limit = 15 mg/kg)

Data Consolidation Reference:

Specimen No.	Transferred from		Date of Issue
	Report No.	Specimen No.	
3	23W-015094(A1)	5	30-Nov-2023
7	23W-015094(A1)	13	30-Nov-2023

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.	2	---	---	---	---	**Limit (mg/kg)**
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (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)

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

Detailed results

California Proposition 65, Total Cadmium in Substrate Materials

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

Specimen No.	3	4	5	6	7	**Limit (mg/kg)**
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Cadmium (Cd)	ND	ND	ND	ND	ND	**75**
Conclusion	PASS	PASS	PASS	PASS	PASS	

Specimen No.	8	---	---	---	---	**Limit (mg/kg)**
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (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)

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

Data Consolidation Reference:

Specimen No.	Transferred from		Date of Issue
	Report No.	Specimen No.	
3	23W-015094(A1)	5	30-Nov-2023
7	23W-015094(A1)	13	30-Nov-2023

Detailed results

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

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

Specimen No.	2	---	---	---	---	**Total Limit (mg/kg)**
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Mercury (Hg)	ND	---	---	---	---	**10**
Conclusion	PASS	---	---	---	---	

Note:
mg/kg=Milligrams per kilogram
LT = Less than
ND = Not detected (Reporting Limit = 10 mg/kg)

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.	3	---	---	---	---	**Limit (mg/kg)**
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Nickel (Ni)	ND	---	---	---	---	**NA**
Conclusion	Information only	---	---	---	---	

Note:
mg/kg = Milligrams per kilogram
ND = Not detected (report limit = 30 mg/kg)
NA = Not applicable

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.	3	---	---	---	---	**Limit (mg/kg)**
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Tungsten (W)	ND	---	---	---	---	**NA**
Conclusion	Information only	---	---	---	---	

Note:
mg/kg = Milligrams per kilogram
LT = Less than
ND = Not detected (Reporting Limit = 15 mg/kg)
NA = Not applicable

Detailed results

US States Requirement, Per-and Polyfluoroalkyl Substances (PFAS) Content (Total Fluorine Method)

Test Method: With reference to EN 14582:2016
Analytical Method: Ion Chromatograph

Specimen No.	1	---	---	---	**Limit (mg/kg)**
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Per- and polyfluoroalkyl substances (PFAS) (as total fluorine)	ND	---	---	---	**100**
Conclusion	PASS	---	---	---	

Note:
mg/kg (Milligrams per kilogram) = ppm (Parts per million)
LT = Less than
ND = Not Detected (Reporting Limit = 50 mg/kg)

Remarks:
The limit is referenced from California AB 652 (2021-2022) and California AB 1200 (2021-2022)

Data Consolidation Reference:

Specimen No.	Transferred from		Date of Issue
	Report No.	Specimen No.	
1	23W-015094(A1)	16	30-Nov-2023

Detailed results

Client's requirement, Bisphenol A content

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

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

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

Detailed results

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

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

Specimen No.		2	4	5	6	**Limit (mg/kg)**
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Dibutyl phthalate (DBP)	84-74-2	ND	ND	ND	ND	**1000**
Benzyl butyl phthalate (BBP)	85-68-7	ND	ND	ND	ND	**1000**
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	ND	ND	ND	**1000**
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	ND	ND	**1000**
Di-n-hexyl phthalate (DHEXP / DnHP)	84-75-3	ND	ND	ND	ND	**1000**
Dicyclohexyl phthalate (DCHP)	84-61-7	ND	ND	ND	ND	**1000**
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	ND	**1000**
Di-n-pentyl phthalate (DPENP)	131-18-0	ND	ND	ND	ND	**1000**
Conclusion		PASS	PASS	PASS	PASS	

Note:
mg/kg = Milligrams per kilogram
LT = Less than
ND = Not detected (Reporting Limit = 150 mg/kg)

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.		7	8	---	---	**Limit (mg/kg)**
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Dibutyl phthalate (DBP)	84-74-2	ND	ND	---	---	**1000**
Benzyl butyl phthalate (BBP)	85-68-7	ND	ND	---	---	**1000**
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	ND	---	---	**1000**
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	---	---	**1000**
Di-n-hexyl phthalate (DHEXP / DnHP)	84-75-3	ND	ND	---	---	**1000**
Dicyclohexyl phthalate (DCHP)	84-61-7	ND	ND	---	---	**1000**
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	---	---	**1000**
Di-n-pentyl phthalate (DPENP)	131-18-0	ND	ND	---	---	**1000**
Conclusion		PASS	PASS	---	---	

Note:
mg/kg = Milligrams per kilogram
LT = Less than
ND = Not detected (Reporting Limit = 150 mg/kg)

Data Consolidation Reference:

Specimen No.	Transferred from		Date of Issue
	Report No.	Specimen No.	
7	23W-015094(A1)	13	30-Nov-2023

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.		2	4	5	6	**Limit (mg/kg)**
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Dibutyl phthalate (DBP)	84-74-2	ND	ND	ND	ND	**1000**
Benzyl butyl phthalate (BBP)	85-68-7	ND	ND	ND	ND	**1000**
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	ND	ND	ND	**1000**
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	ND	ND	**1000**
Diisodecyl phthalate (DIDP)	26761-40-0 68515-49-1	ND	ND	ND	ND	**1000**
Di-n-hexyl phthalate (DnHP)	84-75-3	ND	ND	ND	ND	**1000**
Conclusion		PASS	PASS	PASS	PASS	

Note:
mg/kg (Milligrams per kilogram) = 0.0001 % w/w (Percent by weight)
LT = Less than
ND = Not detected (Reporting Limit = 150 mg/kg)

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

Detailed results

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

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

Specimen No.		7	8	---	---	**Limit (mg/kg)**
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Dibutyl phthalate (DBP)	84-74-2	ND	ND	---	---	**1000**
Benzyl butyl phthalate (BBP)	85-68-7	ND	ND	---	---	**1000**
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	ND	---	---	**1000**
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	---	---	**1000**
Diisodecyl phthalate (DIDP)	26761-40-0 68515-49-1	ND	ND	---	---	**1000**
Di-n-hexyl phthalate (DnHP)	84-75-3	ND	ND	---	---	**1000**
Conclusion		PASS	PASS	---	---	

Note:
mg/kg (Milligrams per kilogram) = 0.0001 % w/w (Percent by weight)
LT = Less than
ND = Not detected (Reporting Limit = 150 mg/kg)

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

Data Consolidation Reference:

Specimen No.	Transferred from		Date of Issue
	Report No.	Specimen No.	
7	23W-015094(A1)	13	30-Nov-2023

Detailed results

Client's Requirement, Phthalates content

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

Specimen No.		2	4	5	6	Limit (mg/kg)
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Dibutyl phthalate (DBP)	84-74-2	ND	ND	ND	ND	**1000**
Benzyl butyl phthalate (BBP)	85-68-7	ND	ND	ND	ND	**1000**
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	ND	ND	ND	**1000**
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	ND	ND	**1000**
Diisodecyl phthalate (DIDP)	26761-40-0 68515-49-1	ND	ND	ND	ND	**1000**
Di-n-hexyl phthalate (DHEXP / DnHP)	84-75-3	ND	ND	ND	ND	**1000**
Di-n-octyl phthalate (DNOP)	117-84-0	ND	ND	ND	ND	**1000**
Diethyl phthalate (DEP)	84-66-2	ND	ND	ND	ND	**1000**
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	ND	**1000**
Dicyclohexyl phthalate (DCHP)	84-61-7	ND	ND	ND	ND	**1000**
Di-n-pentyl phthalate (DPENP/DnPP)	131-18-0	ND	ND	ND	ND	**1000**
Conclusion		PASS	PASS	PASS	PASS	

Note:
mg/kg (Milligrams per kilogram) = 0.0001 % w/w (Percent by weight)
LT = Less than
ND = Not detected (Reporting Limit = 150 mg/kg)

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

Note:
mg/kg (Milligrams per kilogram) = 0.0001 % w/w (Percent by weight)
LT = Less than
ND = Not detected (Reporting Limit = 150 mg/kg)

Data Consolidation Reference:

Specimen No.	Transferred from		Date of Issue
	Report No.	Specimen No.	
7	23W-015094(A1)	13	30-Nov-2023

Detailed results

FDA 21 CFR 177.1520, Polyethylene Copolymer

Test Method: FDA 21 CFR 177.1520

Specimen No.			5	---		
Test Item	Temp.	Duration	Result	Result	**RL**	**Limit**
Density (g/cc)	NA	NA	0.89	---	**NA**	**0.85-1.00**
n-Hexane Extractive (%)	50°C	2 Hours	2.0	---	**0.4**	**5.5**
Xylene Extractive (%)	Reflux	2 Hours or Until Total Dissolved	9.8	---	**1.0**	**30**
		Conclusion	PASS	---		

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

Remark:
The specification is quoted from 21 CFR 177.1520 (c) 3.1a.

Detailed results

FDA 21 CFR 177.1350, Ethylene-Vinyl Acetate Copolymers

Test Method: FDA 21 CFR 177.1350

Specimen No.			5	RL	Limit
Test Item	Test Condition		Result		
	Temp.	Duration			
Distilled water extractive (mg/in^2)	120°F	24 hours	ND	**0.1**	**0.5**
n-Heptane extractive (mg/in^2)	70°F	0.5 hours	ND	**0.1**	**0.5**
Conclusion			PASS		

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

Remark:
The specification is quoted from 21 CFR 177.1350 (b) (1).

Detailed results

Color Fastness to Water

Test Method: AATCC 107-2013

Specimen No.	9	---	---	---	---	Client's requirement
Items	Result (Grade)	Result (Grade)	Result (Grade)	Result (Grade)	Result (Grade)	
Change in shade	4.5	---	---	---	---	-
Staining on multi-fiber stripe						
-Acetate	4.0	---	---	---	---	Min. 3.5
-Cotton	4.5	---	---	---	---	Min. 3.5
-Nylon	4.0	---	---	---	---	Min. 3.5
-Polyester	4.5	---	---	---	---	Min. 3.5
-Acrylic	4.5	---	---	---	---	Min. 3.5
-Wool	4.5	---	---	---	---	Min. 3.5
Conclusion	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.	9	---	---	---	---	Client's requirement
Items	Result (Grade)	Result (Grade)	Result (Grade)	Result (Grade)	Result (Grade)	
Dry staining	4.0	---	---	---	---	Min. 4.0
Wet staining	4.0	---	---	---	---	Min. 2.5
Conclusion	PASS	---	---	---	---	-

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

Detailed results

Color Fastness to Light

Test Method: AATCC 16.3-2020; Option 3; Xenon Arc Lamp.

Specimen No.	9	---	---	---	---	Client's requirement
Items	Result (Grade)	Result (Grade)	Result (Grade)	Result (Grade)	Result (Grade)	
After 20 AFU Change in shade	4.5	---	---	---	---	Min. 4.0
Conclusion	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.	9	---	---	---	---	Requirement
Items	Result (cm)	Result (cm)	Result (cm)	Result (cm)	Result (cm)	
Length	30.0	---	---	---	---	N/A
Width	16.0	---	---	---	---	N/A
Height	43.0	---	---	---	---	N/A
Conclusion	Information only	---	---	---	---	

Article Weight

Test Method: With reference to IHTM-TXHZ-010

Specimen No.	9		
Items	Client's requirement	Result	Conclusion
Article Weight (g/piece)	N/A	463	Information only

Detailed results

Defects

Test Method: ASTM D3990 – 12(2020); Visual Examination

Specimen No.	9	Requirement
Item	Result	
Observation	No major defect	Satisfactory
Conclusion	PASS	-

Fabric Weight Per Unit Area

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

Specimen No.	9-Lining	11	---	---	---	Client's requirement
Items	Result	Result	Result	Result	Result	
(g/m^2)	139	260	---	---	---	N/A
(oz/yd^2)	4.10	7.67	---	---	---	N/A
Conclusion	Information only	Information only	---	---	---	-

Tensile Strength

Test Method: ASTM D5034-21

Specimen No.	11	Client's requirement (lbs)
Items	Result (lbf)	
Warp	322.9	Min. 25
Weft	262.4	Min. 25
Conclusion	PASS	-

Remark: All the warp specimens were jaw broken.

Detailed results

Tearing Strength

Test Method: ASTM D1424-21; Elmendorf

Specimen No.	11	---	---	---	---	Client's requirement
Items	Result	Result	Result	Result	Result	
Warp yarns torn (lbf)	10.8	---	---	---	---	Min. 1.5
Weft yarns torn (lbf)	11.0	---	---	---	---	Min. 1.5
Conclusion	PASS	---	---	---	---	-

Note: Warp test - test in which the warp yarns are torn.
Weft test - test in which the weft yarns are torn.

Seam Strength

Test Method: With reference to ASTM D 1683/D1683M-22

Specimen No.	9		
Items	Client's requirement	Result	Conclusion
Side seam (lbf)	Min. 25	79.8(S.T.B.)	PASS
Bottom seam (Length) (lbf)	Min. 25	64.6 (S.T.B.)	

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

Detailed results

Abrasion Resistance

Test Method: ASTM D4966-12(2016), Option 1; Martindale Wear & Abrasion Tester; 12kPa Pressure

Specimen No.	11	---	---	---	---	Client's requirement
Items	Result	Result	Result	Result	Result	
End point (rubs)	>7500	---	---	---	---	7500
Conclusion	PASS	---	---	---	---	-

Pilling Resistance

Test Method: ASTM D3512/D3512M-22; After 30 min. tumbling in Random tumble Pilling Tester

Specimen No.	11	---	---	---	---	Client's requirement
Items	Result	Result	Result	Result	Result	
As received Rating	4.0	---	---	---	---	Min. 3.5
Conclusion	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

Detailed results

Zipper Strength

Test Method: ASTM D2061-07(2021); type: LM

Specimen No.	10	
Items	Result	Client's requirement
Chain Crosswise Strength Test (lbf)	196.8(Tape separate)	Min. 175
Resistance to Pull-Off Slider Pull (lbf)	89.8(Puller pull out)	Min.35
Resistance to Twist of Pull and Slider Test Clockwise (In. lbf) Counter-Clockwise (In. lbf)	 >7.8* >7.8*	Min.4
Conclusion	PASS	

Remark: *: The maximum capacity of the tester is 7.8 In. lbf

Zipper Operability

Test Method: ASTM D2062-03(2021)

Specimen No.	10	
Items	Result	Client's requirement
Chain opening (lbf)	0.4	Max. 2
Chain closing (lbf)	0.6	Max. 2
Conclusion	PASS	

Detailed results

SOR/2016-194-Textile Flammability Regulations-Non-bedding Textile

Test Method: CAN/CGSB-4.2 No.27.5-2023

Specimen No.	9-Shell				
Preliminary Tests	Fabric Surface	Smooth	Test Specimen Direction		Face Length
Items	Result				Client's requirement
	As Received		**After Dry-cleaning and Laundering***		
	Flame Spread (sec.)	Burn Code	Flame Spread (sec.)	Burn Code	
(1)	-	DNI	-	DNI	>3.5s
(2)	-	DNI	-	DNI	
(3)	-	DNI	-	DNI	
(4)	-	DNI	-	DNI	
(5)	-	DNI	-	DNI	
Conclusion	PASS				

* Dry-cleaning / Laundering procedure is according to Commercial Dry Cleaning / CAN/CGSB-4.2 No.58-2019, Procedure 5, Dry Procedure D1; Moderate mechanical action at 50℃, Synthetic detergent, Tumble dry normal.

Burn Code Description:

DNI = Did not ignite;

Detailed results

SOR/2016-194-Textile Flammability Regulations-Non-bedding Textile

Test Method: CAN/CGSB-4.2 No.27.5-2023

Specimen No.	9-Lining				
Preliminary Tests	Fabric Surface	Smooth	Test Specimen Direction		Face Length
Items	Result				Client's requirement
	As Received		**After Dry-cleaning and Laundering***		
	Flame Spread (sec.)	Burn Code	Flame Spread (sec.)	Burn Code	
(1)	-	IBE	-	IBE	>3.5s
(2)	-	IBE	-	IBE	
(3)	-	IBE	-	IBE	
(4)	-	IBE	-	IBE	
(5)	-	IBE	-	IBE	
(6)	-	IBE	-	IBE	
(7)	-	IBE	-	IBE	
(8)	-	IBE	-	IBE	
(9)	-	IBE	-	IBE	
(10)	-	IBE	-	IBE	
Conclusion	PASS				

* Dry-cleaning / Laundering procedure is according to Commercial Dry Cleaning / CAN/CGSB-4.2 No.58-2019, Procedure 5, Dry Procedure D1; Moderate mechanical action at 50℃, Synthetic detergent, Tumble dry normal.

Burn Code Description:

IBE = Ignited but extinguished;

Detailed results

SOR/2016-194-Textile Flammability Regulations-Non-bedding Textile

Test Method: CAN/CGSB-4.2 No.27.5-2023

Specimen No.	9-Mesh				
Preliminary Tests	Fabric Surface	Smooth	Test Specimen Direction		Face Length
Items	Result				Client's requirement
	As Received		**After Dry-cleaning and Laundering***		
	Flame Spread (sec.)	Burn Code	Flame Spread (sec.)	Burn Code	
(1)	-	IBE	-	IBE	>3.5s
(2)	-	IBE	-	IBE	
(3)	-	IBE	-	IBE	
(4)	-	IBE	-	IBE	
(5)	-	IBE	-	IBE	
(6)	-	IBE	-	IBE	
(7)	-	IBE	-	IBE	
(8)	-	IBE	-	IBE	
(9)	-	IBE	-	IBE	
(10)	-	IBE	-	IBE	
Conclusion	PASS				

* Dry-cleaning / Laundering procedure is according to Commercial Dry Cleaning / CAN/CGSB-4.2 No.58-2019, Procedure 5, Dry Procedure D1; Moderate mechanical action at 50℃, Synthetic detergent, Tumble dry normal.

Burn Code Description:

IBE = Ignited but extinguished;

Detailed results

Fiber Content

Test Method: AATCC TM20-2021

Specimen No.	9-Body		
Items	Client's requirement	Result	Conclusion
Polyester (%)	100	100	PASS

Specimen No.	9-Lining		
Items	Client's requirement	Result	Conclusion
Polyester (%)	100	100	PASS

Fiber Content

Test Method: AATCC TM20-2021/AATCC TM20A-2021; based on moisture regain weight.

Specimen No.	9-Mesh		
Items	Client's requirement	Result	Conclusion
Polyester (%)	88±3	87.4	PASS
Spandex (%)	12±3	12.6	

Note: Based on ASTM D1909-13, Moisture regain of Polyester: 0.4%, Spandex: 1.3%.

Detailed results

19 CFR 134.11-Country of Origin-Labeling Review

Test Parameters	Observation	Conclusion
Country of Origin	Present on product and is visible to the consumer at the point of sale.	PASS

Marking of Imported Goods Order, (C.R.C., c.535), Country of Origin

Section	Requirement	Conclusion
2	Country of Origin Markings	PASS

Charter of French Language, (R.S.Q., c.C-11), Province of Quebec Labeling

Clause	Test	Conclusion
c.C-11	French Labeling	PASS

Detailed results

Client's Requirement for Static Load Test

Test Item	Test Method	Requirement	Conclusion
Static Load Test	1. Visual check the normal function of the sample under test as received. 2. Hanging the bag in a proper place. 3. Place the test load on the bag with 50lb for 2 hours. 4.Observe and record any failure, structural breakage, deformation or any other unusual change from the original state of sample.	No failure, No structural breakage, No damage	PASS

Detailed results

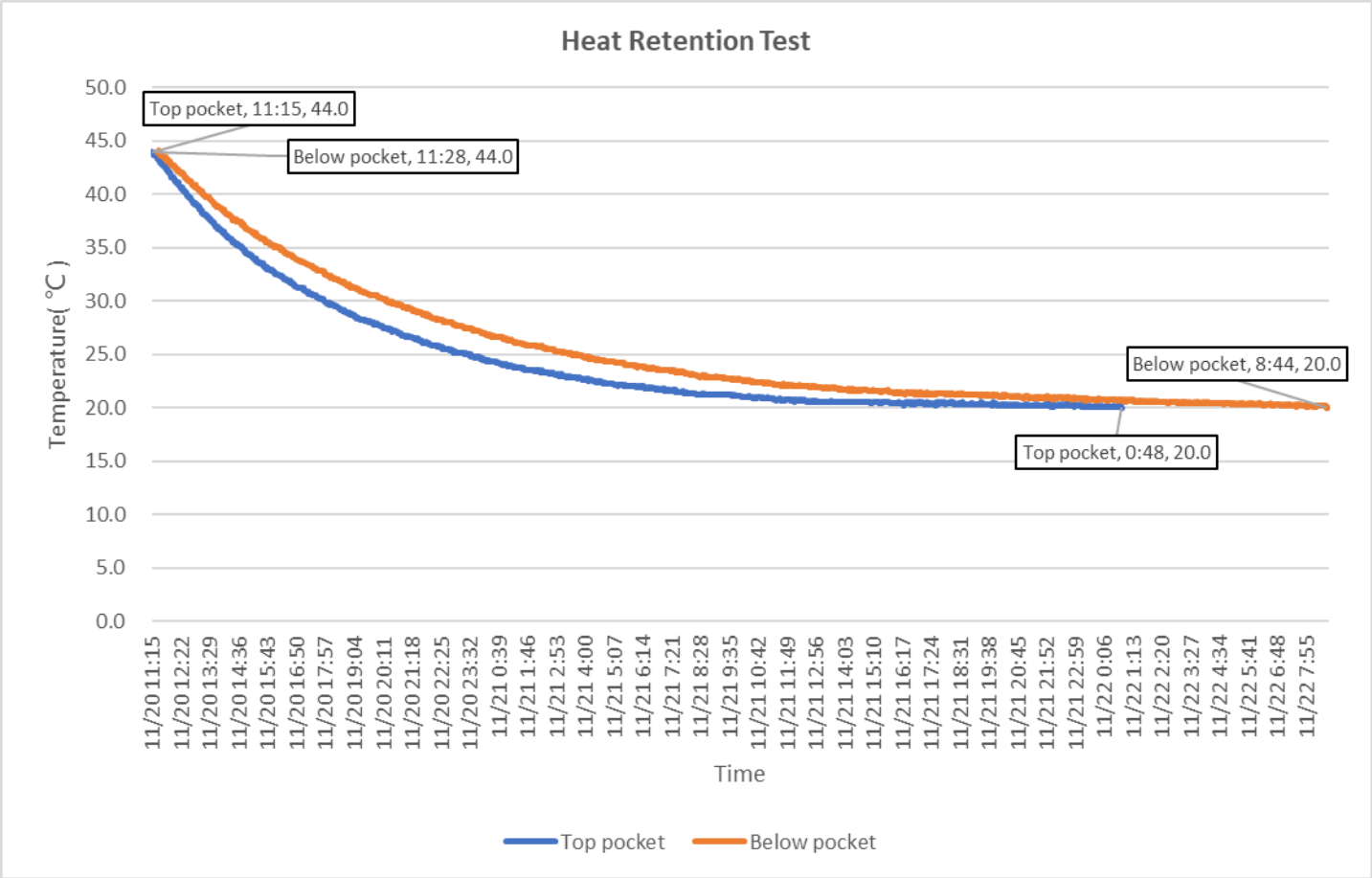
Client-Performance Requirements-Heat Retention Test

Test Method: Reference EN 12546-2 Clause 4.2 Insulation performance
1. Fill the empty container to half its nominal capacity by pouring the water 44 ±1℃ into it, leave for 5 min then empty , Immediately refill the container to half its nominal capacity by pouring the water 44 ±1℃ into it . Insert the thermocouple to approximately half the depth of the water. Close the lid and start the clock.
2. Maintain the container in the ambient temperature of 23±1℃ and measure and record the temperature of the water in the container every 15 min until it drops to 20 ℃
3. Record the time taken for the temperature to drops to 20 ℃

Note: The monitoring point is the geometric center of the sample's loading solution

Specimen	Style
	NOMAD MUST HAVES COOLER BACKPACK
Top pocket	13hr33min
Below pocket	21hr16min

Table 1



Graph 1 - Heat Retention of NOMAD MUST HAVES COOLER BACKPACK

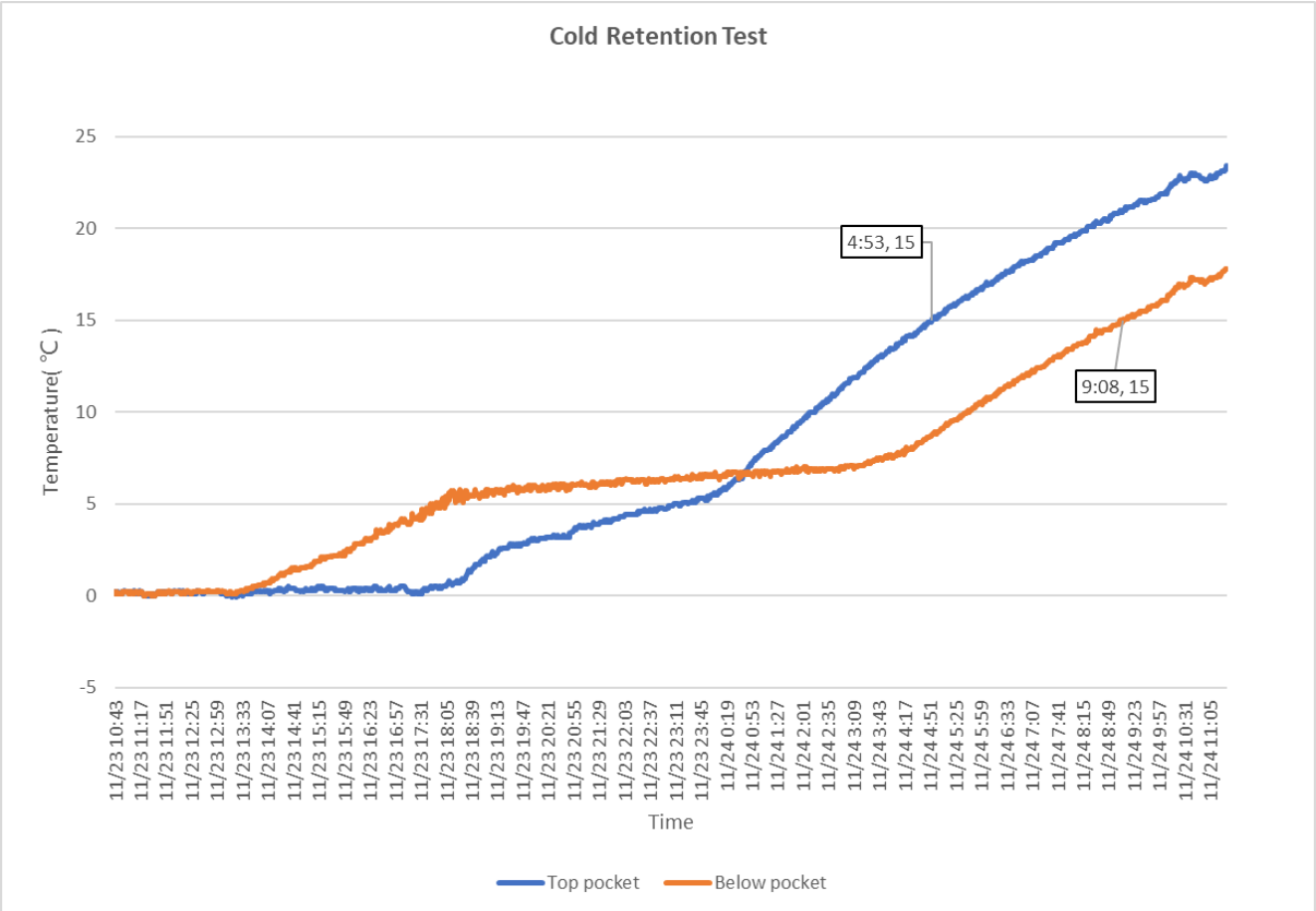
Detailed results

Client-Performance Requirements -Cold Retention Test

Test Method: Refer BS EN 12546-2:2000 section 4.2, Modified.
Ensure the container under test is completely empty.
Conditioner the container to be tested for 24 h at an ambient temperature of (32 ± 1) °C. Fill the empty container to half its nominal capacity by pouring the domestic tap water at (2 ± 1) °C into it, Leave for 5 min then empty. Immediately fill the cup with half of ice no less than 20mm x 20mm in size and the rest with (2±1) °C water. Insert the thermocouple capable of measuring to an accuracy of ± 0.5°C to approximately half the depth of the water. Close the lid and start the clock. Maintain the container in the ambient temperature of (32 ± 1) °C and measure and record the temperature of the water in the container every 15 min until it rises to 15°C. The amount of time to change from the initial temperature to 15 °C was recorded in Table 2. See below Graph 2 for temperature change

Specimen	Style
	NOMAD MUST HAVES COOLER BACKPACK
Top pocket	18hr10min
Below pocket	22hr25min

Table 2



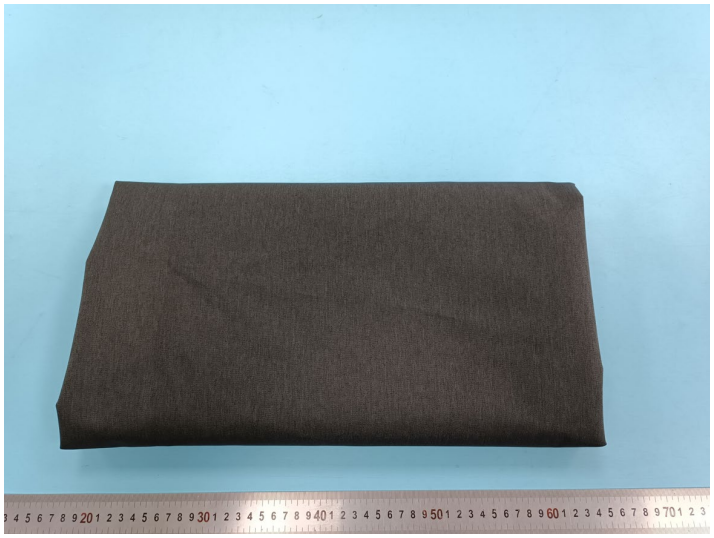
Graph 2 - Cold Retention of NOMAD MUST HAVES COOLER BACKPACK

Specimen description

Specimen #	Specimen description	Location
1	Charcoal grey textile	Main body
2	Black coating	Zipper head
3	Silvery metal	Zipper puller
4	Black soft plastic	Zipper teeth
5	Grey soft plastic	Lining
6	Black soft plastic	Elastic of side pocket
7	Black plastic	Adjustable buckle of Shoulder strap
8	White foam	Filler of Shoulder strap pad
9	Grey bag	Finished product
10	Black main zipper	Raw material
11	Black shell fabric	Raw material

Pictures

Sample photo:



Pictures

Product reference photo:

The photo was provided by the client.

End of the report