

## Test report

23W-015094(A1)



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## 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 DUFFLE	Purchase order #:	-
Assortment:	NVY/KHA/CHL	Factory/supplier:	USG044
Item no./name:	BGR200	Labeled age grade:	-
Item class:	ASHBURY BAG	Tested age grade:	-
Country of origin:	China		
Country of distribution:	Canada, United States		
Quantity submitted:	4 pcs per color		

## General information

Sample receipt date:	26-Oct-2023	Report date:	30-Nov-2023
	27-Oct-2023 to 01-Nov-2023,		
Testing period:	08-Nov-2023 to 15-Nov-2023,		
	21-Nov-2023 to 30-Nov-2023		

QIMA (Hangzhou) Testing Co., Ltd.

Eric Liu  
Lab Operation Director

QIMA (Hangzhou) Testing Co., Ltd.

Jeremy Xu  
Chemical Laboratory Supervisor



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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
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	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
Bursting Strength	PASS
Abrasion Resistance	PASS
Pilling Resistance	PASS
Zipper Strength	PASS
Zipper Operability	PASS
SOR/2016-194-Textile Flammability Regulations-Non-bedding Textile	PASS



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Test(s) conducted	Conclusion
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
Shear Strength of Hook-and-Loop Fasteners <sup>φ</sup>	PASS
Peel Strength of Hook-and-Loop Fasteners <sup>φ</sup>	PASS
Client's Requirement for Static Load Test	PASS

Note: Test(s) marked with <sup>φ</sup> indicate tests performed in external laboratories.



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## 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.	4+14	---	---	---	---	Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Lead (Pb)	19	---	---	---	---	90
<b>Conclusion</b>	PASS	---	---	---	---	

**Note:**

mg/kg = Milligrams per kilogram

LT = Less than

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

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

**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	5	6+7+10	8	11	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	<b>100</b>
<b>Conclusion</b>	PASS	PASS	PASS	PASS	PASS	

Specimen No.	12	13	15	---	---	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	---	---	<b>100</b>
<b>Conclusion</b>	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.





## 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.	4+14	---	---	---	---	Total Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Lead (Pb)	19	---	---	---	---	<b>90</b>
<b>Conclusion</b>	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.



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**QIMA (Hangzhou) Testing Co., Ltd.**  
Room 401, 4-5/F, Building 1, No.1213 Huoju South Road,  
Puyan Subdistrict, Binjiang District, Hangzhou, China



## 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.	3	4+14	5	6+7+10	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	19	ND	ND	ND	90
<b>Conclusion</b>	PASS	PASS	PASS	PASS	PASS	

Specimen No.	9	11	12	13	15	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
<b>Conclusion</b>	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.





## 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.	4+14	---	---	---	---	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
<b>Conclusion</b>	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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## 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	5	6+7+10	8	11	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
<b>Conclusion</b>	PASS	PASS	PASS	PASS	PASS	

Specimen No.	12	13	15	---	---	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	---	---	75
<b>Conclusion</b>	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.





## 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.	4+14	---	---	---	---	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	---	---	---	---	<b>10</b>
<b>Conclusion</b>	PASS	---	---	---	---	

*Note:*

mg/kg=Milligrams per kilogram

LT = Less than

ND = Not detected (Reporting Limit = 10 mg/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 Nickel content

Test Method: US EPA 3052:1996 & US EPA 6010D:2014  
Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	5+15	---	---	---	---	Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Nickel (Ni)	124	---	---	---	---	NA
<b>Conclusion</b>	Information only	---	---	---	---	

**Note:**

mg/kg = Milligrams per kilogram

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

NA=Not applicable

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

Test Method: US EPA 3052:1996 & US EPA 6010D:2014  
Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	5+15	---	---	---	---	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
<b>Conclusion</b>	Information only	---	---	---	---	

**Note:**

mg/kg = Milligrams per kilogram

LT = Less than

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

NA=Not applicable

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





## 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	2	3	16	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)	90	66	59	ND	<b>100</b>
<b>Conclusion</b>	PASS	PASS	PASS	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)



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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.		3	4+14	6+7+10	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	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
<b>Conclusion</b>		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.





## 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.		11	12	13	---	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	---	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
<b>Conclusion</b>		PASS	PASS	PASS	---	

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



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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.		3	4+14	6+7+10	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	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
<b>Conclusion</b>		PASS	PASS	PASS	PASS	

Specimen No.		11	12	13	---	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	---	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
<b>Conclusion</b>		PASS	PASS	PASS	---	

**Note:**

mg/kg (Milligrams per kilogram) = 0.0001 % w/w (Percent by weight)

LT = Less than

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

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

**Remark:**

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.		3	4+14	6+7+10	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	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
<b>Conclusion</b>		PASS	PASS	PASS	PASS	

**Note:**

mg/kg (Milligrams per kilogram) = 0.0001 % w/w (Percent by weight)

LT = Less than

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

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





## Detailed results

### Client's Requirement, Phthalates content

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

Specimen No.		11	12	13	---	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	---	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
<b>Conclusion</b>		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)



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## Detailed results

### Color Fastness to Water

Test Method: AATCC 107-2022.

Specimen No.	17	18	19	---	---	Client's requirement
Items	Result (Grade)	Result (Grade)	Result (Grade)	Result (Grade)	Result (Grade)	
Change in shade	4.5	4.5	4.5	---	---	-
Staining on multi-fiber stripe						
-Acetate	4.0	4.0	4.0	---	---	Min. 3.5
-Cotton	4.5	4.5	4.5	---	---	Min. 3.5
-Nylon	4.0	4.0	4.0	---	---	Min. 3.5
-Polyester	4.5	4.5	4.5	---	---	Min. 3.5
-Acrylic	4.5	4.5	4.5	---	---	Min. 3.5
-Wool	4.5	4.5	4.5	---	---	Min. 3.5
Conclusion	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.	17	18	19	---	---	Client's requirement
Items	Result (Grade)	Result (Grade)	Result (Grade)	Result (Grade)	Result (Grade)	
Dry staining	4.0	4.0	4.0	---	---	Min. 4.0
Wet staining	4.0	4.0	4.0	---	---	Min. 2.5
Conclusion	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 16.3-2020; Option 3; Xenon Arc Lamp.

Specimen No.	17	18	19	---	---	Client's requirement
Items	Result (Grade)	Result (Grade)	Result (Grade)	Result (Grade)	Result (Grade)	
After 20 AFU Change in shade	4.5	4.5	4.5	---	---	Min. 4.0
Conclusion	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.	17	18	19	---	---	Requirement
Items	Result (cm)	Result (cm)	Result (cm)	Result (cm)	Result (cm)	
Length	55.5	55.5	55.5	---	---	N/A
Width	25.5	25.5	25.5	---	---	N/A
Height	28.0	28.0	28.0	---	---	N/A
Conclusion	Information only	Information only	Information only	---	---	

### Article Weight

Test Method: With reference to IHTM-TXHZ-010

Specimen No.	17		
Items	Client's requirement	Result	Conclusion
Article Weight (g/piece)	N/A	622	Information only





## Detailed results

### 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	618	Information only

Specimen No.	19		
Items	Client's requirement	Result	Conclusion
Article Weight (g/piece)	N/A	615	Information only

### Defects

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

Specimen No.	17	Requirement
Item	Result	
Observation	No major defect	Satisfactory
Conclusion	PASS	-

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

Specimen No.	19	Requirement
Item	Result	
Observation	No major defect	Satisfactory
Conclusion	PASS	-





## Detailed results

### Fabric Weight Per Unit Area

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

Specimen No.	20	21	22	23	24	Client's requirement
Items	Result	Result	Result	Result	Result	
(g/m <sup>2</sup> )	271	74.4	276	262	276	N/A
(oz/yd <sup>2</sup> )	7.99	2.19	8.14	7.73	8.14	N/A
Conclusion	Information only	Information only	Information only	Information only	Information only	-

Specimen No.	25	26	27	28	---	Client's requirement
Items	Result	Result	Result	Result	Result	
(g/m <sup>2</sup> )	74.4	260	276	74.4	---	N/A
(oz/yd <sup>2</sup> )	2.19	7.67	8.14	2.19	---	N/A
Conclusion	Information only	Information only	Information only	Information only	---	-

### Tensile Strength

Test Method: ASTM D5034-21

Specimen No.	20	Client's requirement (lbs)
Items	Result (lbf)	
Warp	318.7	Min. 25
Weft	278.6	Min. 25
Conclusion	PASS	-

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





## Detailed results

### Tensile Strength

Test Method: ASTM D5034-21

Specimen No.	21	Client's requirement (lbs)
Items	Result (lbf)	
Warp	148.1	Min. 25
Weft	90.3	Min. 25
Conclusion	PASS	-

### Tensile Strength

Test Method: ASTM D5034-21

Specimen No.	22	Client's requirement (lbs)
Items	Result (lbf)	
Warp	379.1	Min. 25
Weft	314.5	Min. 25
Conclusion	PASS	-

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

### Tensile Strength

Test Method: ASTM D5034-21

Specimen No.	23	Client's requirement (lbs)
Items	Result (lbf)	
Warp	333.3	Min. 25
Weft	278.1	Min. 25
Conclusion	PASS	-

Remark: All the warp specimens were jaw broken.



Verify Report





## Detailed results

### Tensile Strength

Test Method: ASTM D5034-21

Specimen No.	24	Client's requirement (lbs)
Items	Result (lbf)	
Warp	379.1	Min. 25
Weft	314.5	Min. 25
Conclusion	PASS	-

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

### Tensile Strength

Test Method: ASTM D5034-21

Specimen No.	25	Client's requirement (lbs)
Items	Result (lbf)	
Warp	148.1	Min. 25
Weft	90.3	Min. 25
Conclusion	PASS	-

### Tensile Strength

Test Method: ASTM D5034-21

Specimen No.	26	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.



Verify Report







## Detailed results

### Tensile Strength

Test Method: ASTM D5034-21

Specimen No.	27	Client's requirement (lbs)
Items	Result (lbf)	
Warp	379.1	Min. 25
Weft	314.5	Min. 25
Conclusion	PASS	-

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

### Tensile Strength

Test Method: ASTM D5034-21

Specimen No.	28	Client's requirement (lbs)
Items	Result (lbf)	
Warp	148.1	Min. 25
Weft	90.3	Min. 25
Conclusion	PASS	-



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## Detailed results

### Tearing Strength

Test Method: ASTM D1424-21; Elmendorf

Specimen No.	20	21	22	23	24	Client's requirement
Items	Result	Result	Result	Result	Result	
Warp yarns torn (lbf)	7.7	4.0	>14.1	10.8	>14.1	Min. 1.5
Weft yarns torn (lbf)	9.0	3.4	>14.1	11.8	>14.1	Min. 1.5
Conclusion	PASS	PASS	PASS	PASS	PASS	-

Specimen No.	25	26	27	28	---	Client's requirement
Items	Result	Result	Result	Result	Result	
Warp yarns torn (lbf)	4.0	10.8	>14.1	4.0	---	Min. 1.5
Weft yarns torn (lbf)	3.4	11.0	>14.1	3.4	---	Min. 1.5
Conclusion	PASS	PASS	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.





## Detailed results

### Seam Strength

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

Specimen No.	17		
Items	Client's requirement	Result	Conclusion
Side seam (lbf)	Min. 25	82.3(S.T.B.)	PASS
Bottom seam (Length) (lbf)	Min. 25	111.3(S.T.B.)	
Bottom seam (Width) (lbf)	Min. 25	74.1(S.T.B.)	

Specimen No.	18		
Items	Client's requirement	Result	Conclusion
Side seam (lbf)	Min. 25	101.8(S.T.B.)	PASS
Bottom seam (Length) (lbf)	Min. 25	65.2(S.T.B.)	
Bottom seam (Width) (lbf)	Min. 25	70.2(S.T.B.)	

Specimen No.	19		
Items	Client's requirement	Result	Conclusion
Side seam (lbf)	Min. 25	78.3(S.T.B.)	PASS
Bottom seam (Length) (lbf)	Min. 25	75.6(S.T.B.)	
Bottom seam (Width) (lbf)	Min. 25	88.4(S.T.B.)	

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



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## Detailed results

### Abrasion Resistance

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

Specimen No.	20	22	23	24	26	Client's requirement
Items	Result	Result	Result	Result	Result	
End point (rubs)	>7500	>7500	>7500	>7500	>7500	7500
Conclusion	PASS	PASS	PASS	PASS	PASS	-

Specimen No.	27	---	---	---	---	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.	20	22	23	24	26	Client's requirement
Items	Result	Result	Result	Result	Result	
As received Rating	4.0	4.0	4.0	4.0	4.0	Min. 3.5
Conclusion	PASS	PASS	PASS	PASS	PASS	-

Specimen No.	27	---	---	---	---	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.	29	
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	

Specimen No.	30	
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	

Specimen No.	31	
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



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## Detailed results

### Zipper Operability

Test Method: ASTM D2062-03(2021)

Specimen No.	29	
Items	Result	Client's requirement
Chain opening (lbf)	0.4	Max. 2
Chain closing (lbf)	0.6	Max. 2
Conclusion	PASS	

Specimen No.	30	
Items	Result	Client's requirement
Chain opening (lbf)	0.4	Max. 2
Chain closing (lbf)	0.6	Max. 2
Conclusion	PASS	

Specimen No.	31	
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.	17-Shell				Face Length
Preliminary Tests	<u>Fabric Surface</u>	Smooth	<u>Test Specimen Direction</u>		
Items	Result				Client's requirement
	<u>As Received</u>		<u>After Dry-cleaning and Laundering*</u>		
	<u>Flame Spread (sec.)</u>	<u>Burn Code</u>	<u>Flame Spread (sec.)</u>	<u>Burn Code</u>	
(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°C, Synthetic detergent, Tumble dry normal.

#### Burn Code Description:

DNI = Did not ignite;



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## Detailed results

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

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

Specimen No.	17-Lining				Client's requirement	
Preliminary Tests	<u>Fabric Surface</u>	Smooth	<u>Test Specimen Direction</u>			Face Length
Items	Result					
	<u>As Received</u>		<u>After Dry-cleaning and Laundering*</u>			
	<u>Flame Spread (sec.)</u>	<u>Burn Code</u>	<u>Flame Spread (sec.)</u>	<u>Burn Code</u>		
(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°C, Synthetic detergent, Tumble dry normal.

#### **Burn Code Description:**

IBE = Ignited but extinguished;



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## Detailed results

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

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

Specimen No.	18-Shell				Face Length
Preliminary Tests	<u>Fabric Surface</u>	Smooth	<u>Test Specimen Direction</u>		
Items	Result				Client's requirement
	<u>As Received</u>		<u>After Dry-cleaning and Laundering*</u>		
	<u>Flame Spread (sec.)</u>	<u>Burn Code</u>	<u>Flame Spread (sec.)</u>	<u>Burn Code</u>	
(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°C, Synthetic detergent, Tumble dry normal.

#### **Burn Code Description:**

DNI = Did not ignite;



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## Detailed results

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

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

Specimen No.	18-Lining				Client's requirement	
Preliminary Tests	<u>Fabric Surface</u>	Smooth	<u>Test Specimen Direction</u>			Face Length
Items	Result					
	<u>As Received</u>		<u>After Dry-cleaning and Laundering*</u>			
	<u>Flame Spread (sec.)</u>	<u>Burn Code</u>	<u>Flame Spread (sec.)</u>	<u>Burn Code</u>		
(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°C, Synthetic detergent, Tumble dry normal.

#### Burn Code Description:

IBE = Ignited but extinguished;



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## Detailed results

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

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

Specimen No.	19-Shell				Face Length
Preliminary Tests	<u>Fabric Surface</u>	Smooth	<u>Test Specimen Direction</u>		
Items	Result				Client's requirement
	<u>As Received</u>		<u>After Dry-cleaning and Laundering*</u>		
	<u>Flame Spread (sec.)</u>	<u>Burn Code</u>	<u>Flame Spread (sec.)</u>	<u>Burn Code</u>	
(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°C, Synthetic detergent, Tumble dry normal.

#### Burn Code Description:

DNI = Did not ignite;



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## Detailed results

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

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

Specimen No.	19-Lining				Face Length
Preliminary Tests	<u>Fabric Surface</u>	Smooth	<u>Test Specimen Direction</u>		
Items	Result				Client's requirement
	<u>As Received</u>		<u>After Dry-cleaning and Laundering*</u>		
	<u>Flame Spread (sec.)</u>	<u>Burn Code</u>	<u>Flame Spread (sec.)</u>	<u>Burn Code</u>	
(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°C, Synthetic detergent, Tumble dry normal.

#### **Burn Code Description:**

IBE = Ignited but extinguished;



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## Detailed results

### Fiber Content

Test Method: AATCC TM20-2021

Specimen No.	17-Shell		
Items	Client's requirement	Result	Conclusion
Polyester (%)	100	100	PASS

Specimen No.	17-Lining		
Items	Client's requirement	Result	Conclusion
Polyester (%)	100	100	PASS

Specimen No.	18-Shell		
Items	Client's requirement	Result	Conclusion
Polyester (%)	100	100	PASS

Specimen No.	18-Lining		
Items	Client's requirement	Result	Conclusion
Polyester (%)	100	100	PASS

Specimen No.	19-Shell		
Items	Client's requirement	Result	Conclusion
Polyester (%)	100	100	PASS

Specimen No.	19-Lining		
Items	Client's requirement	Result	Conclusion
Polyester (%)	100	100	PASS



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## 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

### Shear Strength of Hook-and-Loop Fasteners<sup>φ</sup>

Test Method: ASTM D5169, 300mm / Min

Specimen No.	32	---	---	---	---	Client's requirement
Items	Result	Result	Result	Result	Result	
Original (KPa)	171.1	---	---	---	---	Min. 65
After 5000 Revolution (KPa)	143.7	---	---	---	---	Min. 65
Conclusion	PASS	---	---	---	---	-

### Peel Strength of Hook-and-Loop Fasteners<sup>φ</sup>

Test Method: ASTM D5170, 300mm / Min

Specimen No.	32	---	---	---	---	Client's requirement
Items	Result	Result	Result	Result	Result	
Original (N/mm)	0.33	---	---	---	---	Min. 0.08
After 5000 Revolution (N/mm)	0.25	---	---	---	---	Min. 0.08
Conclusion	PASS	---	---	---	---	-





## Detailed results

### Client's Requirement for Static Load Test

Test Item	Test Method	Requirement	Conclusion
Static Load Test	<ol style="list-style-type: none"><li>1. Visual check the normal function of the sample under test as received.</li><li>2. Hanging the bag in a proper place.</li><li>3. Place the test load on the bag with 50lb for 2 hours.</li><li>4. Observe and record any failure, structural breakage, deformation or any other unusual change from the original state of sample.</li></ol>	No failure, No structural breakage, No damage	PASS



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## Specimen description

Specimen #	Specimen description	Location
1	Dark green textile	Main body (dark green style)
2	Navy textile	Main body (navy style)
3	Black coated black textile	Bottom (navy style)
4	Black coating	Zipper head (navy style)
5	Silvery metal	Zipper puller (navy style)
6	Black soft plastic	Zipper teeth (navy style)
7	White soft plastic	Pipe filler (navy style)
8	Black soft plastic	Inner subplate (navy style)
9	Black non-woven textile	Inner edge (navy style)
10	Black soft plastic	Velcro hook of handle (navy style)
11	Black foam	Filler of Shoulder strap pad (navy style)
12	Black coated white label	Composition label (navy style)
13	Black plastic	Adjustable buckle of Shoulder strap (navy style)
14	Black coating	Eyelet (navy style)
15	Silvery metal	Eyelet (navy style)
16	Charcoal grey textile	Main body (charcoal grey style)
17	Dark green bag	Finished product
18	Navy bag	Finished product
19	Charcoal grey bag	Finished product
20	Green shell upper fabric	Raw material(dark green style)
21	Black lining fabric	Raw material(dark green style)
22	Black shell bottom fabric	Raw material(dark green style)
23	Navy shell upper fabric	Raw material (navy style)
24	Black shell bottom fabric	Raw material (navy style)
25	Black lining fabric	Raw material (navy style)
26	Grey shell upper fabric	Raw material(charcoal grey style)
27	Black shell bottom fabric	Raw material (charcoal grey style)
28	Black lining fabric	Raw material (charcoal grey style)



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## Specimen description

Specimen #	Specimen description	Location
29	Black zipper	Raw material(dark green style)
30	Black zipper	Raw material (navy style)
31	Black zipper	Raw material(charcoal grey style)
32	Black Hook-and-Loop	Raw material



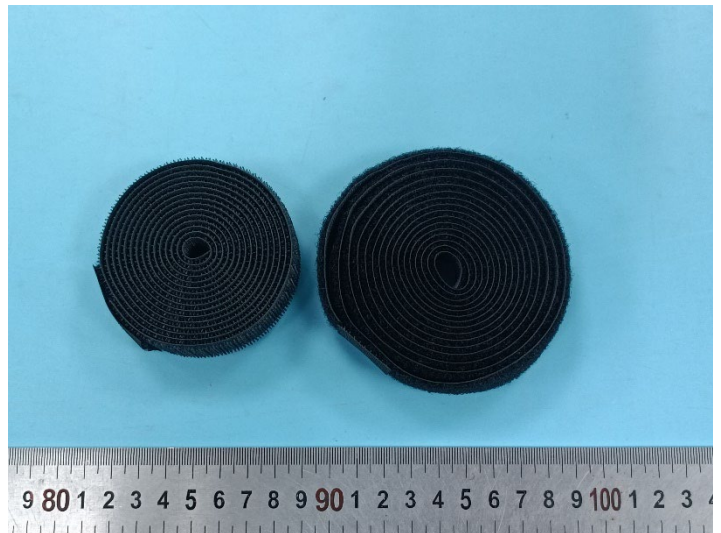
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## Pictures

### Sample photo:



End of the report

The test result(s) and conclusion(s) in this report relate only to the sample(s) as received and the method /regulation section(s) tested as described herein. If it is not further specified in the report, the decision rule for stating conformity is based on the QIMA decision rule. (<https://www.qima.com/conditions-of-service#decisionRule>). This test report may not be reproduced in whole or in part, without the written approval of QIMA (Hangzhou) Testing Co., Ltd.



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**QIMA (Hangzhou) Testing Co., Ltd.**  
Room 401 4-5/F, Building 1, No.1213 Huoju South Road,  
Puyan Subdistrict, Binjiang District, Hangzhou, China

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