

# SPECTOR & CO LTD TEST REPORT

Technical Report: (8517)189-0571(Revised)

Page 1 of 22  
JUL 21, 2017





**BUREAU  
VERITAS**

# SPECTOR & CO LTD TEST REPORT

TO : SPECTOR & CO LTD  
5700 KIERNA ROAD MONTREAL QC H4S 2B5/CANADA

ATTN: CHRIS PEARSON  
CC:

LAB NO.: **(8517)189-0571(Revised)**  
FORM NO.: F0397255.506118178257  
DATE IN: JUL 11, 2017  
MODIFIED DATE IN: /  
DATE OUT: JUL 21, 2017  
NO. OF WORKING DAYS: 9  
REVISED DATE: **DEC 11, 2017**  
PAGE 2 OF 22

### OVERALL RATING

PASS \_\_\_\_\_ **X**  
FAIL \_\_\_\_\_  
DATA \_\_\_\_\_

Sample Description:	NOMAD MUST HAVE BACKPACK W/FRONT POCKET		
Style No.:	BG1060GRY HEATHER GREY	No. of Cartons:	/
Item No.:	/	No. of Samples:	/
Country of Origin:	CHINA	Country of Destination:	CANADA/USA
Lot No.:	/	P.O. No.:	69584
Previous Report No.:	/		



**COMMENTS:**

1. The submitted sample(s) meet client's phthalates content requirement as follow: **(PASS)**

**Phthalates Content –As Client's Requirement for 8P Content**

Parameter	CAS no.	Unit	Result			Maximum Allowable Limit
			1	2	3	
Dibutyl phthalate (DBP)	84-74-2	%	<0.005	<0.005	<0.005	0.1
Butyl benzyl phthalate (BBP)	85-68-7	%	<0.005	<0.005	<0.005	0.1
Di-2-ethylhexyl phthalate (DEHP)	117-81-7	%	<0.005	<0.005	<0.005	0.1
Di-n-octyl phthalate (DNOP)	117-84-0	%	<0.005	<0.005	<0.005	0.1
Di-iso-nonyl phthalate (DINP)	28553-12-0	%	<0.005	<0.005	<0.005	0.1
Di-iso-decyl phthalate (DIDP)	26761-40-0	%	<0.005	<0.005	<0.005	0.1
Di-n-hexyl (DnHP)	84-75-3	%	<0.005	<0.005	<0.005	0.1
Diethyl phthalate (DEP)	84-66-2	%	<0.005	<0.005	<0.005	0.1
Conclusion	-	-	PASS	PASS	PASS	-

Parameter	CAS no.	Unit	Result			Maximum Allowable Limit
			4	5	6	
Dibutyl phthalate (DBP)	84-74-2	%	<0.005	<0.005	<0.005	0.1
Butyl benzyl phthalate (BBP)	85-68-7	%	<0.005	<0.005	<0.005	0.1
Di-2-ethylhexyl phthalate (DEHP)	117-81-7	%	<0.005	<0.005	<0.005	0.1
Di-n-octyl phthalate (DNOP)	117-84-0	%	<0.005	<0.005	<0.005	0.1
Di-iso-nonyl phthalate (DINP)	28553-12-0	%	<0.005	<0.005	<0.005	0.1
Di-iso-decyl phthalate (DIDP)	26761-40-0	%	<0.005	<0.005	<0.005	0.1
Di-n-hexyl (DnHP)	84-75-3	%	<0.005	<0.005	<0.005	0.1
Diethyl phthalate (DEP)	84-66-2	%	<0.005	<0.005	<0.005	0.1
Conclusion	-	-	PASS	PASS	PASS	-

Test Item 1:	Black, white coatings (sewn label)/ bright black coating (zipper head)
Test Item 2:	Black plastic (buckle)/ dull black plastic (zipper teeth)/ matt black plastic (hook)
Test Item 3:	Matt black fabric, black thread (belt, hook)/ bright black fabric (rim of inner)
Test Item 4:	Black fabric (zipper band)/ dull black fabric (elastic band)/ white fabric (sewn label)
Test Item 5:	Soft black net fabric (pocket)/ dull black net fabric (belt, back)/ black printed white fabric (lining)
Test Item 6:	Grey fabric, black PVC backing (shell)

Note: "<" = less than

Method: Sample was extracted with organic solvent and then analyzed by Liquid Chromatograph Mass Spectrometer / Gas Chromatograph Mass Spectrometer.

2. The submitted sample(s) demonstrated **SATISFACTORY** level of total lead content as the lead content in surface coating comply with the requirement. **(PASS)**



**BUREAU  
VERITAS**

**TOTAL LEAD CONTENT IN SURFACE COATING**

- Consumer Product Safety Improvement Act (CPSIA) of 2008 "Ban of Lead-containing paint and certain consumer products bearing Lead-containing paint",
- Canadian Hazardous Products Act (CHPA), R.S., c. H-3, Schedule I, Part 1, Item 2
- Client's total lead in surface coating
- NO COMPOSITE     COMPOSITE

Element:				Lead			
Requirement: Maximum allowable limit:							
<input type="checkbox"/> CPSIA limit :				<input type="checkbox"/> 90 mg/kg			
<input type="checkbox"/> CHPA limit:				<input type="checkbox"/> 600 mg/kg			
<input checked="" type="checkbox"/> Client's limit:				<input checked="" type="checkbox"/> 90 mg/kg			
Sample Description				Result	Conclusion		
	Color / Component	Location	Style	(mg/kg)	<input type="checkbox"/> CPSIA (90ppm)	<input type="checkbox"/> CHPA (600ppm)	<input checked="" type="checkbox"/> Client's Limit 90ppm
1.	Black, white coatings	Sewn label	All	<10	<input type="checkbox"/> PASS <input type="checkbox"/> FAIL	<input type="checkbox"/> PASS <input type="checkbox"/> FAIL	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL
2.	Bright black coating	Zipper head	All	<10	<input type="checkbox"/> PASS <input type="checkbox"/> FAIL	<input type="checkbox"/> PASS <input type="checkbox"/> FAIL	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL

LT = Less Than

mg/kg = milligrams per kilogram (ppm = parts per million)

\* = Average of duplicate analyses

Remark: In some cases, the tested component cannot be tested individually due to overlapped coatings. And it is not considered as "COMPOSITE".

**CPSIA Third Party Report ( COULD/  COULDN'T/ NO COMMENT) be issued.**

3. The submitted sample(s) meet the Total Lead Content requirement as follow: (PASS)

TOTAL LEAD CONTENT IN SUBSTRATE (Consumer Product Safety Improvement Act (CPSIA) of 2008)

Client's total lead in substrate

Sample Description				Result	Conclusion	
	Color / Component	Location	Style	(mg/kg)	<input type="checkbox"/> (100ppm)	<input checked="" type="checkbox"/> Client's Limit 100PPM
1	Black plastic	Buckle	All	<10	<input type="checkbox"/> PASS <input type="checkbox"/> FAIL	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL
	Dull black plastic	Zipper teeth	All			
	Matt black plastic	Hook	All			
2	Grey fabric, black PVC back	Shell	All	<10	<input type="checkbox"/> PASS <input type="checkbox"/> FAIL	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL



**BUREAU  
VERITAS**

3	Matt black fabric, black thread	Belt, hook	All	20	<input type="checkbox"/> PASS <input type="checkbox"/> FAIL	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL
	Bright black fabric	Rim of inner	All			
4	Black fabric	Zipper band	All	<10	<input type="checkbox"/> PASS <input type="checkbox"/> FAIL	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL
	Dull black fabric	Elastic band	All			
	White fabric	Sewn label	All			
5	Soft black net fabric	Pocket	All	<10	<input type="checkbox"/> PASS <input type="checkbox"/> FAIL	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL
	Dull black net fabric	Belt, back	All			
	Black printed white fabric	Lining	All			
6	Silvery plated metal	Frame of hook	All	<10	<input type="checkbox"/> PASS <input type="checkbox"/> FAIL	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL
7	Silvery plated metal	Arm of hook	All	18	<input type="checkbox"/> PASS <input type="checkbox"/> FAIL	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL
8	Silvery plated metal	Axle of hook	All	37	<input type="checkbox"/> PASS <input type="checkbox"/> FAIL	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL
9	Silvery plated metal	Ring of hook	All	16	<input type="checkbox"/> PASS <input type="checkbox"/> FAIL	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL
10	Silvery plated metal	Big zipper slide	All	13	<input type="checkbox"/> PASS <input type="checkbox"/> FAIL	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL
11	Silvery plated metal	Small zipper slide	All	21	<input type="checkbox"/> PASS <input type="checkbox"/> FAIL	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL
12	Silvery plated metal	Big zipper puller	All	13	<input type="checkbox"/> PASS <input type="checkbox"/> FAIL	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL
13	Silvery plated metal	Small zipper teeth	All	22	<input type="checkbox"/> PASS <input type="checkbox"/> FAIL	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL
14	Silvery plated metal	Zipper teeth	All	32	<input type="checkbox"/> PASS <input type="checkbox"/> FAIL	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL

LT = Less Than

mg/kg = milligrams per kilogram (ppm = parts per million)

\* = Average of duplicate analyses

4. The submitted sample(s) meet the Total Cadmium Content requirement as follow: **(PASS)**

**TEST RESULT:** **PASS**

**Total Cadmium Content In Coating As Client Requirement**

Tested Item	Result	Limit
1	<0.0010% (<10ppm)	0.0075% (75ppm)
2	<0.0010% (<10ppm)	0.0075% (75ppm)

Tested Item 1: Black, white coatings (sewn label)

Tested Item 2: Bright black coating (zipper head)



Note: " $<$ " = less than  
mg/kg = milligram per kilogram

Method: Sample was digested with acid reference to EPA3051 and then analyzed by Atomic Absorption Spectrophotometer or Inductively Coupled Argon Plasma Spectrometer.

**Total Cadmium Content in substrate As Client's Requirement**

Sample Description				Result	Conclusion
	Color / Component	Location	Style	(mg/kg)	Limit 75 ppm
1	Black plastic	Buckle	All	<10	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL
	Dull black plastic	Zipper teeth	All		
	Matt black plastic	Hook	All		
2	Grey fabric, black PVC back	Shell	All	<10	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL
3	Matt black fabric, black thread	Belt, hook	All	<10	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL
	Bright black fabric	Rim of inner	All		
4	Black fabric	Zipper band	All	<10	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL
	Dull black fabric	Elastic band	All		
	White fabric	Sewn label	All		
5	Soft black net fabric	Pocket	All	<10	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL
	Dull black net fabric	Belt, back	All		
	Black printed white fabric	Lining	All		
6	Silvery plated metal	Frame of hook	All	<10	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL
7	Silvery plated metal	Arm of hook	All	<10	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL
8	Silvery plated metal	Axle of hook	All	<10	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL
9	Silvery plated metal	Ring of hook	All	<10	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL
10	Silvery plated metal	Big zipper slide	All	<10	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL
11	Silvery plated metal	Small zipper slide	All	<10	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL
12	Silvery plated metal	Big zipper puller	All	<10	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL
13	Silvery plated metal	Small zipper teeth	All	<10	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL
14	Silvery plated metal	Zipper teeth	All	<10	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL

Note: " $<$ " = less than  
mg/kg = milligram per kilogram

Method: Sample was digested with acid reference to EPA3051 and then analyzed by Atomic Absorption Spectrophotometer or Inductively Coupled Argon Plasma Spectrometer.



**Recommendation(s) For Improvement: /**

**Remark(s):**

1. See enclosed protocol for the test results.
2. As per the request, only the following test(s) was conducted in this test report:
  - Client's 8 phthalates content test
  - Lead content in surface coating test
  - Client's Total Lead Content test
  - Total Cadmium Content test
  - Lead in PVC
  - Performance test under BVCPS protocol 2070(CN) and 2070(US)



NOTE: If there are questions or concerns regarding above report, please contact the appropriate lab persons.

Technical questions & concerns: Alex Lam / Henry Hu  
(+86)755-86135515 / 32980214  
Alex-jw.lam@cn.bureauveritas.com  
Henry.hu@cn.bureauveritas.com

General Enquiries: Coco Li / Eve Lu  
(+86)755-86135548 / 32980215  
Viva.chen@cn.bureauveritas.com  
Eve.lu@cn.bureauveritas.com

BUREAU VERITAS SHENZHEN CO., LTD

BRIAN TAM  
MANAGER – HARDLINES DIVISION





BV Lab Number: (8517)189-0571(Revised)  
 Technician Name: AIR  
 Test Date: JUL 21, 2017  
 Reviewed By/Date: AIR/JUL 21, 2017  
Page 9 of 22

**BUREAU VERITAS TEST PROTOCOL FOR**

**CPSD - 02070 - CN  
 BACKPACK HANDBAG (V20)**

Evaluation	Citation / Method	No. of Samples	Criteria	Results	Rating
<b>SUPPLEMENTAL PROTOCOLS</b>					
Note: Additional cost, sample size & TAT may be required if testing to one or more supplemental protocol is necessary. Please refer to the below referenced supplemental protocol(s) for additional information					
* Upholstered and stuffed articles label	Applicable section from protocol CPSD-GB-PTCL-01990-CN	1	All applicable samples shall be reviewed against the requirements of the applicable Provincial Regulation (Ontario, Quebec or Manitoba) for Upholstered and Stuffed Articles labelling. This also applies to items with Filling Materials that include solid cores with non-textile outer coverings including finishes such as lacquers, acrylics and sugar beaded finishes.	NT	/
* Packaging and Labeling Requirement	CPSD-HL-PTCL-09067-CN-MX-US	-	The sample shall meet applicable packaging and labeling requirements in the supplemental protocol.	NT	/
<b>LABELING</b>					
Use Labeling	CPSD-HL-01057-MTHD / Visual	1	Use/care instructions that are clear and understandable shall be provided in language appropriate to destination countries, if applicable.	NT	/



BV Lab Number: **(8517)189-0571(Revised)**  
 Technician Name: AIR  
 Test Date: JUL 21, 2017  
 Reviewed By/Date: AIR/JUL 21, 2017  
 Page 10 of 22

**CPSD - 02070 - CN  
 BACKPACK HANDBAG (V20)**

Evaluation	Citation / Method	No. of Samples	Criteria	Results	Rating
Claim verification - level 2	CPSD-GB-08612-MTHD	All	<p>Examine the retail packaging (or submitted artwork).</p> <p>Record each objective (factual) claim which can be substantiated by the testing within the protocols and rate accordingly.</p> <p>Record testing that extend beyond existing net quantity / dimensional testing on this protocol.</p> <p>Record all other objective (factual) and subjective (opinion) claims as "NT" and rate as "DATA".</p> <p>Record information evaluated between the graphic imagery and the product.</p> <p>Record disclaimers on datasheet.</p>	NT	/
<b>FLAMMABILITY</b>					
Flammability of solids	16 CFR 1500.3 (c) (6) (vi) / 16 CFR 1500.44	1	Shall not exceed the maximum allowable limit of no greater than 0.1 inches per second	NT	/
* Canadian flammability - textile products	Textile Flammability Regulations / CAN/CGSB-4.2 No.27.5:2008	1	<p>Time of flame spread shall be</p> <p>a) Greater than 3.5 seconds where the product does not have a raised fiber surface, or</p> <p>b) Time of flame spread shall be greater than 4.0 seconds, where the product has a raised fiber surface and exhibits ignition or fusion of the base fibers</p>	NT	/
<b>PHYSICAL CHARACTERISTICS</b>					
Dimensions	CPSD-HL-01056-MTHD / Standard measure	1	Report overall dimensions; shall meet label claims (If applicable).	NT	/
Dimensions - depth	CPSD-HL-01056-MTHD / Standard measure	1	Report overall depth; shall meet label claims (If applicable).	NT	/
Weight	CPSD-HL-01056-MTHD / Standard measure	1	Report overall dimensions; shall meet label claims (If applicable)	NT	/



BV Lab Number: **(8517)189-0571(Revised)**

Technician Name: AIR

Test Date: JUL 21, 2017

Reviewed By/Date: AIR/JUL 21, 2017

Page 11 of 22

**CPSD - 02070 - CN  
BACKPACK HANDBAG (V20)**

Evaluation	Citation / Method	No. of Samples	Criteria	Results	Rating
Dimensions - handle drop	CPSD-HL-01056-MTHD / Standard measure	1	Report overall dimension; shall meet label claims (If applicable)	NT	/
Dimensions - circumference - shoulder strap drop	CPSD-HL-01056-MTHD / Standard measure	1	Report overall dimensions; shall meet label claims (If applicable).	NT	/
Dimensions - thickness	CPSD-HL-01056-MTHD / Standard measure	1	Report overall thickness; shall meet label claims (If applicable)	NT	/
Number of Main Compartments	CPSD-HL-01057-MTHD / Visual	1	Shall meet label claims.	NT	/
Number of interior pouches or pockets	Visual / CPSD-HL-01057-MTHD	1	Shall meet label claims.	NT	/
Number of external pouches or pockets	Visual / CPSD-HL-01057-MTHD	1	Shall meet label claims.	NT	/
Other features	Visual / CPSD-HL-01057-MTHD	1	Shall meet label claims.	NT	/
Material weight	ASTM D3776-09	1	± 3.0% From Approval	NT	/
Fabric count of woven fabric	ASTM D3775-12	1	+ / - 3.0% from approval	NT	/
Yarn Structure	ASTM 1244	1	± 3.0% from approval	NT	/
Parts inventory	CPSD-HL-01057-MTHD / Visual	1	Shall meet label claims.	NT	/
Material Type	CPSD-HL-01057-MTHD / Visual	1	Shall meet label claims.	NT	/
<b>WORKMANSHIP</b>					
Sharp point and sharp edge	SOR/2011-17 (Mod)	All	Shall have no sharp points / edges, other than those required for function. Modification: Expanded scope to other products.	NT	/



BV Lab Number: **(8517)189-0571(Revised)**  
 Technician Name: AIR  
 Test Date: JUL 21, 2017  
 Reviewed By/Date: AIR/JUL 21, 2017  
 Page 12 of 22

**CPSD - 02070 - CN  
 BACKPACK HANDBAG (V20)**

Evaluation	Citation / Method	No. of Samples	Criteria	Results	Rating
Defects	CPSD-HL-01057-MTHD / Visual	All	Shall have no discernible surface degradation, including crazing, shivering, denting, bubbles, cracks, stains, deformations, chips, fractures, heavy lines, waves, shear marks, scratches, scuff marks, indentations, or blisters.	NT	/
Workmanship	CPSD-HL-01057-MTHD / Visual	All	Shall have no components missing, malformed, and/or fractured.	NT	/
Fabric defects	ASTM D3990-12 (R2016)	All	No critical / major defects	NT	/
<b>PERFORMANCE</b>					
Actual use - functionality - not covered by other tests	Actual use / CPSD-HL-01058-MTHD	1	Shall function as intended as received. Report details of evaluation (features tested / methods used / materials used / etc.) Report any features not evaluated.	M	PASS
Seam Strength	ASTM D1683-11	1	Side Seam: 25 lb minimum Bottom Seam: 25 lb minimum Zipper Seam: 25 lb minimum Handle Strength @ 45°: 25 lb minimum Handle Strength: 25 lb minimum	M	PASS
Tensile strength	ASTM D5034 -09 R2013	1	50 lbs. / In. min.	M	PASS
Snap Attachment	CPSD-SL-31044-MTHD	1	17 lbs for 10 seconds.	NA	/
Resistance to snapping and unsnapping of snap fasteners	CPSD-SL-31045-MTHD	2	Min. 2 lbs Max. 8 lbs	NA	/
Button or small parts attachment strength	CPSD-SL-31023-MTHD	1	17 Lbs. for 10 seconds	NA	/
Button Impact resistance	CPSD-SL-31001-MTHD	1	No fracture of buttons	NA	/
Operability of zipper - open and close	ASTM D2062-03	1	5 lb maximum	M	PASS
Strength tests for zippers	ASTM D2061-07 R2013	1	Cross Widthwise Strength : 50 Lbs. (Min.) Scoop Pull : 10 Lbs. (Min.) Top Stop : 20 Lbs. (Min.) Bottom Stop : 20 Lbs. (Min.) Slider Torque : 2 In. / Lbs. (Min.) Slider Pull : 5 Lbs. (Min.)	<b>M</b>	<b>PASS</b>



BV Lab Number: (8517)189-0571(Revised)  
 Technician Name: AIR  
 Test Date: JUL 21, 2017  
 Reviewed By/Date: AIR/JUL 21, 2017  
Page 13 of 22

**CPSD - 02070 - CN  
 BACKPACK HANDBAG (V20)**

Evaluation	Citation / Method	No. of Samples	Criteria	Results	Rating
Abrasion resistance of fabric - inflated diaphragm apparatus	ASTM D3886-99 (R 2015)	1	[Edge] No removal of upper surface after 300 cycles.	M	PASS
Flexing test	CPSD-SL-81002-MTHD	1	No cracking after 10,000 cycles	NA	/
Humidity exposure	In-house method / CPSD-HL-01007-MTHD	1	No visual change after 24 hours at 95% R.H. & 100°F	M	PASS
Resistance to corrosion	ASTM B117-16 modified / CPSD-HL-01010-MTHD	1	[Applicable to samples / sample components constructed of metal or samples with metallic coatings that can be exposed to the environment] Shall withstand 24 hours in 1% salt spray (fog) with no noticeable oxidation / corrosion / visual changes. Modification = 1% salt spray (fog).	M	PASS
<b>COLORFASTNESS</b>					
* Colorfastness to light	AATCC 16.3	1	[One color included] [Option 3] Grade 4.0 Minimum @ 10 hours	NT	/
* Colorfastness to crocking	AATCC 8-16	1	[One color included] Dry: Grade 4 minimum Wet: Grade 3 minimum	NT	/
* Colorfastness to rotary crocking	AATCC 116	1	[One color included] Dry: Grade 4 minimum Wet: Grade 3 minimum	NT	/



BV Lab Number: **(8517)189-0571(Revised)**  
 Technician Name: AIR  
 Test Date: JUL 21, 2017  
 Reviewed By/Date: AIR/JUL 21, 2017  
 Page 14 of 22

**CPSD - 02070 - CN  
 BACKPACK HANDBAG (V20)**

Evaluation	Citation / Method	No. of Samples	Criteria	Results	Rating
* Colorfastness to water	AATCC 107	1	[One color included] Class 4.0 (Min.)	NT	/
* Colorfastness to burnt gas fumes	AATCC TM23 2015	1	[One color included] Min. Grade 4 after 1 cycle	NT	/
* # Colorfastness to artificial saliva	DIN 53160-1:2010-10	1	[For child & baby backpack] [One color included] Color staining: Grade 5.0	NT	/

Key:  
 \* Additional Charge For This Test  
 \*\* Mandatory Requirement  
 # By Request Only

Result Key:  
 C Claimed  
 R Recorded  
 M Meets  
 NM Does Not Meet  
 NA Not Applicable  
 NT Not Tested

Rating Key:  
 PASS Pass  
 FAIL Fail  
 NR Not Requested

No. Of Samples Required for Complete Testing	3
No. Of (Fully Packed) Cartons For Transit Testing:	1
No. Of Working Days For Complete Testing:	7

Client Approval: /  
 Creation Date: JULY 13, 2012  
 Last Revision Date: JUNE 29, 2017  
 Pricing Review Date:  
 Technical Review Date:



BV Lab Number: **(8517)189-0571(Revised)**  
 Technician Name: AIR  
 Test Date: JUL 21, 2017  
 Reviewed By/Date: AIR/JUL 21, 2017  
 Page 15 of 22

<b>Protocol Number</b>	CPSD-HL-02070-USA-3 STAR		<b>Version</b>	32
<b>Protocol Description</b>	BAGS			
<b>Country</b>	United States			
<b>Scope</b>	Applicable to briefcases, computer/reporter bags, sports bags, back packs/rucksack, handbags. (with wheels) Reusable shipping bag refer to CPSD-HL-02078-PTCL.			
<b>Creation Date</b>	05/Aug/2014	<b>Last Revision Date</b>	30/Jun/2017	
<b>Client Approval Date</b>		<b>Approver</b>		
<b>No of Sample</b>	-	1 STAR: 2 2 STAR: 4 3 STAR: 4		
<b>No of Working Days</b>	7			

Keys					
A	Additional Charge For This Test	M	Mandatory	R	Regulatory

	Evaluation	Citation / Method	Criteria	1 Star	2 Star	3 Star	Results	Rating
<b>SUPPLEMENTARY PROTOCOL</b>								
Note: Additional cost, sample size & TAT may be required if testing to 1 or more supplemental protocol is necessary. Please refer to the below referenced supplemental protocol(s) for additional information.								
A M	California Proposition 65	CPSD-AN-PTCL-06572-USA	The sample should be reviewed against the requirements of California Proposition 65 to determine if additional testing or labeling is required. For samples that fall under the scope of CA Prop 65 requirements with testing limit(s) but does not contain appropriate labeling (refer to image appendix for detail), actual testing will be conducted. Otherwise, actual testing is not required and report as "Pass" if the sample contains appropriate labeling.	X	X	X	NT	/
A	Non-CPSIA requirements	CPSD-AN-PTCL-08443-USA	All samples shall be reviewed against the requirements of Non-CPSIA Requirements supplemental protocol to determine if additional testing or labeling is required.		X	X	NT	/
A	Packaging and	CPSD-HL-PTCL-	The sample shall meet applicable packaging and labeling requirements in the supplemental	X	X	X	NT	/



BV Lab Number: **(8517)189-0571(Revised)**  
 Technician Name: AIR  
 Test Date: JUL 21, 2017  
 Reviewed By/Date: AIR/JUL 21, 2017  
 Page 16 of 22

	Evaluation	Citation / Method	Criteria	1 Star	2 Star	3 Star	Results	Rating
	Labeling Requirement	09067-CAN-MEX-USA	protocol.					
<b>LABELING</b>								
	Use labeling	CPSD-GB-01057-MTHD	Use/care instructions shall be clear, concise and understandable, provide step-by-step method of use and be provided in language appropriate to destination countries. Provide a copy of the instructions in the report.		X	X	NT	/
A	Claim verification - level 1	CPSD-GB-08612-MTHD	Examine the retail packaging (or submitted artwork). Record each objective (factual) claim which can be substantiated by the testing within the protocols and rate accordingly. Any net quantity/ dimensional claims evaluated in other sections of this protocol need not be recorded. All other claims (subjective and objective) shall not be recorded or evaluated. Applicable to 1 Star only.	X			NT	/
A	Claim verification - level 2	CPSD-GB-08612-MTHD	Examine the retail packaging (or submitted artwork). Record each objective (factual) claim which can be substantiated by the testing within the protocols and rate accordingly. Record testing that extend beyond existing net quantity / dimensional testing on this protocol. Record all other objective (factual) and subjective (opinion) claims as "NT" and rate as "DATA". Record information evaluated between the graphic imagery and the product. Record disclaimers on datasheet. Applicable to 2 Star only		X		NT	/
A	Claim verification - level 3	CPSD-GB-08612-MTHD	Examine the retail packaging (or submitted artwork). Record each objective (factual) claim which can be substantiated by the testing within the protocols and rate accordingly. Additional testing required outside of the protocol shall be approved. Any objective claim not approved by the client shall be recorded as "NT" and rate as "-". If additional testing cannot be conducted due to capability issues, the claims shall be recorded as "NT" and rated as "Data" All subjective (opinion) claims shall be recorded as "Not Tested" and rated as "-". Record information evaluated between the graphic imagery and the product Record disclaimers on datasheet.			X	NT	/
R	Plastic bag warning statement	US Various state laws / CPSD-GB-01073-MTHD	Plastic bags with a thickness of less than 1 mil, in which a diameter is 5 inches or greater (when formed into a circle) used as packaging or packaging article for domestic/household use (e.g. laundry bag, garbage bag) shall contain warning statement similar to below in English: <b>WARNING:</b> To avoid danger of suffocation, keep this bag away from babies and children. Do not use in cribs, beds, carriages or playpens. This bag is not a toy. The warnings shall be printed clearly as to prevent the ink from smearing or upon a gummed label securely attached to the bag. It shall be contrasted by typography, layout or color from the contents of the bag and from other printed matter on the bag, if any.	X	X	X	NT	/





BV Lab Number: **(8517)189-0571(Revised)**  
 Technician Name: AIR  
 Test Date: JUL 21, 2017  
 Reviewed By/Date: AIR/JUL 21, 2017  
 Page 17 of 22

	Evaluation	Citation / Method	Criteria	1 Star	2 Star	3 Star	Results	Rating										
			<p>If the total length and width of the bag is more than 40 inches, the warning shall be repeated at intervals of 20-inches or less.            Except laundry bag, the font size of the warning must adhere to the chart listed below:</p> <table border="0"> <tr> <td>Total Length and Width of Bag</td> <td>Size of Print</td> </tr> <tr> <td>60 inches or more</td> <td>At least 24 points</td> </tr> <tr> <td>40 inches to less than 60 inches</td> <td>At least 18 points</td> </tr> <tr> <td>25 inches to less than 40 inches</td> <td>At least 14 points</td> </tr> <tr> <td>Less than 25 inches</td> <td>At least 10 points</td> </tr> </table> <p>For laundry bag, the font size of the warning should be at least 36 points.</p>	Total Length and Width of Bag	Size of Print	60 inches or more	At least 24 points	40 inches to less than 60 inches	At least 18 points	25 inches to less than 40 inches	At least 14 points	Less than 25 inches	At least 10 points					
Total Length and Width of Bag	Size of Print																	
60 inches or more	At least 24 points																	
40 inches to less than 60 inches	At least 18 points																	
25 inches to less than 40 inches	At least 14 points																	
Less than 25 inches	At least 10 points																	
R	Labeling review: leather	16 CFR 24	<p>Must conform to guidelines for leather content / general fiber content labeling            If all or part of a product is made of non-leather material that appears to be leather, the non-leather material must be disclosed on the retail packaging. The disclosure must be of such conspicuousness and clarity as to be noted by consumers casually inspecting the product. The disclosure must be in close proximity to the product identification.            NOTE: A material that contains ground, pulverized, shredded, reconstituted or bonded leather cannot be represented as being wholly leather. Adequate disclosure of these leather types must be present.</p>	X	X	X	NT	/										
<b>ANALYTICAL</b>																		
A R	Heavy metal in packaging-Doc	Model Toxics in Packaging Legislation of the Toxics in Packaging Clearinghouse (TPCH) / CPSD-GB-00001-MTHD	<p>The sum of concentration levels of lead, cadmium, mercury and hexavalent chromium in packaging or packaging components shall not exceed 100 mg/kg (100 ppm) by weight.            In lieu of testing, test report can be submitted if dated within One year.</p>	X	X	X	NT	/										
<b>FLAMMABILITY</b>																		
R	Solids - Flammability	16 CFR 1500.3(c)(6)(vi) / 16 CFR 1500.44	Shall not exceed the maximum allowable limit of no greater than 0.1 inches per second.	X	X	X	NT	/										
<b>PHYSICAL CHARACTERISTICS</b>																		



BV Lab Number: **(8517)189-0571(Revised)**  
 Technician Name: AIR  
 Test Date: JUL 21, 2017  
 Reviewed By/Date: AIR/JUL 21, 2017  
 Page 18 of 22

	Evaluation	Citation / Method	Criteria	1 Star	2 Star	3 Star	Results	Rating
	Dimensions, weight, counts - product	CPSD-GB-01056-MTHD	Each dimension should be listed and measured as appropriate. Shall meet claim. 1. Overall dimension (per product) 2. Overall weight (per product) 3. Folded dimension 4. Useful dimension (Measurement range, seated height, foot dimension) 5. Counts (Features, design, layers) 6. Material thickness (if claimed)		X	X	NT	/
	Parts inventory	CPSD-GB-01057-MTHD	Shall meet label claims. All listed hardware must be provided.		X	X	NT	/
A	Fiber content analysis	AATCC 20-13/AATCC 20A-14	Blends - Report actual (3% maximum Tolerance - FTC) Single fiber - Report actual (0% Tolerance - FTC)		X	X	NT	/
	Fabric weight	ASTM D3776-09a R2013	Report in both oz./sq. yd. & gm./sq. meter Report actual shall meet label claims ( $\pm 5\%$ )		X	X	NT	/
	Fabric count of knit fabric	ASTM D3887-96 R2008 sec 12	Report actual shall meet label claims ( $\pm 5\%$ )		X	X	NT	/
	Fabric count of woven fabric	ASTM D3775-12	Report actual shall meet label claims ( $\pm 5\%$ )		X	X	NT	/
	Yarn construction	ASTM D1244-98 (R2011)	Report actual. Shall meet label claim.		X	X	NT	/
	Dimensions, weight, counts - features	CPSD-GB-01056-MTHD	Each dimension should be listed and measured as appropriate. Shall meet claim. 1. Overall dimension (per product features) 2. Overall weight (per product features) 3. Folded dimension 4. Useful dimension (Measurement range, seated height, foot dimension) 5. Others (if claimed)			X	NT	/
	Thickness of textile material	ASTM D1777-96 (R2015)	Report actual shall meet label claims ( $\pm 5\%$ )		X	X	NT	/
<b>WORKMANSHIP</b>								
	Defects and workmanship	CPSD-GB-01057-MTHD	Shall have no discernible surface degradation, including crazing, shivering, denting, bubbles, cracks, stains, deformations, chips, fractures, heavy lines, waves, shear marks, scratches, scuff marks, indentations, or blisters. Shall have no components missing, malformed, and/or fractured.		X	X	NT	/
	Sharp point and sharp edge	16 CFR 1500.48 & 49 (Mod)	Shall have no sharp points / edges, other than those required for function. Modification: Expanded scope to other products.		X	X	NT	/
	Fabric defects	ASTM D3990-12 (R2016)	Visual examination to verify noticeable defects such as missing components, obvious knitting/weaving defects, improper functioning component.		X	X	NT	/
<b>PERFORMANCE</b>								



BV Lab Number: **(8517)189-0571(Revised)**  
 Technician Name: AIR  
 Test Date: JUL 21, 2017  
 Reviewed By/Date: AIR/JUL 21, 2017  
 Page 19 of 22

	Evaluation	Citation / Method	Criteria	1 Star	2 Star	3 Star	Results	Rating
	Actual use - functionality	CPSD-GB-01058-MTHD	Shall function as intended as received. Testing is limited to verification of basic function. Only function failures will be reported. NT rating shall be given to product that cannot be tested due to testing cannot be replicated in laboratory conditions.		X	X	M	PASS
	Attachment strength	CPSD-HL-01068-MTHD	Functional: 15 lb for 10 seconds minimum Non-Functional: 8 lb for 10 seconds minimum Sequins, beads, bugles & rhinestones: 4 lb for 10 seconds minimum Note: tested by force gauge		X	X	NA	/
A	Resistance to corrosion	ASTM B117-16 (mod) / CPSD-HL-01010-MTHD	Shall withstand 24 hours in 1% salt spray (fog) with no noticeable oxidation / corrosion / visual changes. Modification: 1% salt spray (fog).			X	M	PASS
	Cycle test	CPSD-GB-01058-MTHD	All movable parts shall have no damage after 100 cycles		X	X	M	PASS
	Humidity exposure	CPSD-HL-01007-MTHD	Should withstand 24 hours at 100 °F and 95%RH with no visual change.			X	M	PASS
	Effects of extreme temperature change	CPSD-HL-01012-MTHD	24 hours at 0 °F and 120 °F - No failure. The sample shall not have any structural failure and visual changes such as cracks, fractures or significant aesthetic changes.			X	M	PASS
	Seam strength	ASTM D1683-11 (Mod)	Side seam: 25 lb / in minimum Bottom seam: 25 lb / in minimum Zipper seam: 25 lb / in minimum Reinforced stress points: 25 lb / in minimum Handle strength at 45°: 25 lb / in minimum Handle strength: 25 lb / in minimum Modification: Expanded scope to other products.		X	X	M	PASS
	Breaking strength of textile fabrics: grab test	ASTM D5034-09 R2013	Minimum 25 lbf Note: Pass / fail base on result of overall fabric break.		X	X	M	PASS
	Holding strength of snap fasteners	ASTM D7142-05 (R2016)	17 lb for 10 seconds		X	X	NA	/
	Resistance to snapping and unsnapping of	CPSD-SL-31045-MTHD	Minimum 2 lb Maximum 8 lb		X	X	NA	/



BV Lab Number: **(8517)189-0571(Revised)**

Technician Name: AIR

Test Date: JUL 21, 2017

Reviewed By/Date: AIR/JUL 21, 2017

Page 20 of 22

	Evaluation	Citation / Method	Criteria	1 Star	2 Star	3 Star	Results	Rating
	snap fasteners							
	Operability of zippers	ASTM D2062-03 R2009	Maximum 5 lbs		X	X	M	PASS
	Strength tests for zippers	ASTM D2061-07 R2013	Cross widthwise strength: 50 lb. minimum. Scoop pull: 10 lb. minimum. Top stop: 20 lb. minimum. Bottom stop: 20 lb. minimum. Slider torque: 2 lb-in minimum. Slider pull: 5 lb. minimum.		X	X	M	PASS
	Abrasion resistance of fabric - inflated diaphragm apparatus	ASTM D3886-99 (R2015)	No removal of upper surface after 300 cycles		X	X	M	PASS
	Flexing test	CPSD-SL-81002-MTHD	No cracking after 1000 cycles			X	NA	/
	Abrasion resistance of fabric: rotary platform, double-head method	ASTM D3884-09 R2013	Minimum 300 cycles (CS 17 at 1000 g) Maximum 2 yarns rupture		X	X	M	PASS
	Abrasion resistance of fabric: flexing and abrasion method	ASTM D3885-07a (R2015)	Minimum 200 cycles.		X	X	M	PASS
A	Castor or roller resistance	CPSD-HL-03054-MTHD	Load the sample as per Table 1 in the test method. Report the maximum force needed to pull the sample after initial acceleration.		X	X	NA	/
A	Rolling road	CPSD-HL-02010-MTHD	Sample shall not exhibit any damage such as misalignment, loss of serviceability, deformation of the wheel, dents, dislocation of the castor and/or wheels. Evenly distribute the appropriate maximum value into the luggage. Close and fully fasten. Sample shall be tested for a distance of 4000 yards on the rolling road tester set at a speed of 4.4 ± 0.5 km/h (2.73 ± 0.31 miles/h). Maximum dimension > 650 mm - load shall be 50 kg Maximum dimension 500 - 650 mm - load shall be 40 kg Maximum dimension < 500 mm - load shall be 20 kg			X	NA	/
	Drop test	CPSD-HL-02014-MTHD	Evenly distribute the appropriate maximum load into the luggage / bag. Close and fully fasten. The piece of luggage / bag shall be raised to a height of 0.6 + 0.1 m and dropped so that one of its corners will impact the floor surface (smooth concrete or similar). Assess visually and record any damage that has been caused to the following scale:		X	X	M	PASS



BV Lab Number: **(8517)189-0571(Revised)**  
 Technician Name: AIR  
 Test Date: JUL 21, 2017  
 Reviewed By/Date: AIR/JUL 21, 2017  
 Page 21 of 22

	Evaluation	Citation / Method	Criteria	1 Star	2 Star	3 Star	Results	Rating
			5 – Light superficial marking to exterior, no internal damage. 4 – Moderate superficial marking to exterior, light superficial damage to interior. 3 – Heavy marking on exterior, superficial permanent damage to main structure. 2 – Cracked or broken structure wheeling system or components. 1 – Case opens / bursts revealing contents. Shall be no damage to zippers, wheels, trolley systems and any other similar attachments					
A	Flexibility and adhesion of finish on leather	ASTM D6182-00 R2015	35,000 cycles minimum		X	X	NA	/
	Dynamic loading	CPSD-GB-01058-MTHD	Loading weight of sand bag as specified below into the bag and hanging it onto a rod (diameter: approximate 1 inch) with up and down motion (4 inches amplitude, 20 cycles per minute) for 1200 cycles. Shall not have physical damage on the bag and its handle. Small: 15 lb minimum Medium: 30 lb minimum Large: 50 lb minimum NOTE: Small Bag: If Length plus Width is less than 25 inches. Medium Bag: If Length plus Width is between 25 and 45 inches. Large Bag: If Length plus Width is more than 45 inches.		X	X	M	PASS
	Drawstring strength	CPSD-HL-01068-MTHD	10 lb minimum		X	X	NA	/
	Fit properties	CPSD-GB-01058-MTHD	Shall hold claimed items securely and allow easy access.		X	X	NA	/
	Handle compression	CPSD-HL-02013-MTHD	< 22 inches load shall be 40 lb > 22 inches load shall be 50 lb Child's load shall be 20 lb (maximum)		X	X	M	PASS
<b>COLORFASTNESS</b>								
A	Colorfastness to light	AATCC 16.3-14	[One color included] [Option 3] Outdoor products: Grade 4.0 minimum at 60 AFU exposure (Xenon Arc). Indoor products: Grade 4.0 minimum at 20 AFU exposure (Xenon Arc).			X	NT	/



BV Lab Number: (8517)189-0571(Revised)  
 Technician Name: AIR  
 Test Date: JUL 21, 2017  
 Reviewed By/Date: AIR/JUL 21, 2017  
Page 22 of 22

	Evaluation	Citation / Method	Criteria	1 Star	2 Star	3 Star	Results	Rating
A	Colorfastness to crocking	AATCC 8-16	[One color included] Dry: Grade 4.0 minimum Wet: Grade 3.0 minimum			X	NT	/
A	Colorfastness to rotary crocking	AATCC 116-13	[One color included] Dry: Grade 4.0 minimum Wet: Grade 3.0 minimum			X	NT	/
A	Colorfastness to water	AATCC 107-13	[One color included] Color change: Grade 4.0 minimum. Color staining: Grade 3.5 minimum. Self-staining: Grade 4.5 minimum.			X	NT	/