

# Test Report

No. 3935947/TX

Date : May 07 2012

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TEST	PASS	CONDITIONAL PASS	FAIL	REMARKS
Colour Fastness To Crocking	X			
Tensile strength	X			
Tearing strength	X			
Seam Performance	X			
Taber Abrasion			X	See result
Water Resistance	X			
Lead in accessible substrate materials	X			
Phthalates	X			
Total Cadmium	X			
Perfluorooctanesulfonate (PFOS) Content	X			
Determination of Bally Flexing Resistance	X			

**PASS** = Meets Burton's Performance Standard.

**CONDITIONAL PASS** = Meets Burton's performance standard with the condition that the recommended changes are made or with Burton approval.

**FAIL** = Fails to meet Burton's Performance Standard.

Signed for and on behalf of  
SGS Hong Kong Ltd.



Chau Ho Yan, Amy  
Senior Account Executive

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### Test Results:

#### Colour Fastness To Crocking (AATCC 8-2007)

		<u>Requirement</u>
Dry staining	4.5	Min. 4.0
Wet staining	4.5	Min. 3.0

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

#### Tensile Strength (ASTM D5034-2009 – CRE – 1" grab)

		<u>Requirement</u>
Warp (lb)	104.0	Min. 35 lb
Weft (lb)	50.9	

#### Tearing Strength (ASTM D2261-2011; Tongue Tear)

		<u>Requirement</u>
Average 5 highest peak force:		
Warp (lb)	9.9	Min. 3.0 lb
Weft (lb)	3.8	

#### Standard deviation

Warp	0.6
Weft	0.0

#### Coefficient of variation (%)

Warp	5.7
Weft	0.9

Note : Warp test - test in which the warp yarns are torn without wetting.  
 Weft test - test in which the weft yarns are torn without wetting.  
 Type of clamps used: 3x1 inch clamps.  
 Machine type: Titan – Universal Strength Tester (600N)  
 Software: Titan version 5.0.0

#### Seam Performance (ASTM D434-1995)

		<u>Requirement</u>
Strength (lb)		
Seam/Warp	47.2 (FTS)	Min. 30 lb
Seam/Weft	59.6 (STB)	

Notes: STB = Sewing Threads Break  
 FTS = Fabric Tears at Seam

#### Taber Abrasion

(ASTM D3884-2009, Taber (RPDH) Abrader CS-17 wheel, test option : Heavy duty-500g/wheel)

		<u>Requirement</u>
End Point (cycles)	2700 (loss in coating)	Exceed 3000 cycles

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### Water Resistance (AATCC 127-2008 Option 2; Hydrostatic Head)

Water column (mm)

Specimen 1	16800.0
Specimen 2	18300.0
Specimen 3	16820.0
Average	17306.7

### Requirement

Min. 10000 mm

### Determination of Bally Flexing Resistance (ASTM D6182-2000(2005))

	<u>Room temp</u>	<u>-5°C</u>	<u>Specified Requirement</u>
Test results:			
<u>After 20000 cycles</u>			
Extent of damage	No damage	No damage	No damage
Number of cracking	Nil	Nil	
Length of cracking (mm)	Nil	Nil	

Remarks: Apparatus: Bally flexometer

### Chemical Test:

#### Tested Component List / List of Materials

Sample	Material No.	Component (s)
/	1	Black synthetic leather with black fabric backing

### Lead in accessible substrate materials

Method (non-metallic materials): CPSC Test Method: CPSC-CH-E1002-08.1 'Standard Operation Procedure for Determining Total Lead (Pb) in Non-Metal Children Product'

Method (metal materials): CPSC Test Method: CPSC-CH-E1001-08.1 'Standard Operating Procedure for Determining Total Lead (Pb) in Children's Metal Products (Including Children's Metal Jewelry)'.

Test item	<u>1</u>	Permissible Limit**
Lead (Pb)	ND	0.01 %
<b>Conclusion</b>	<b>PASS</b>	---

\*\* Limit applies to a children's product manufactured after 14 August 2011 (Public Law 112-28 (HR 2715, 112<sup>th</sup> Congress) amending CPSIA)

- Note: 1. % = percentage by weight  
 2. 1% = 10000ppm (mg/kg)  
 3. ND = not detected  
 4. Method Detection Limit = 0.002 %

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### Phthalates (Polymeric material other than PVC over age 12)

Test Method: With reference to CPSC-CH-C1001-09.3. Analysis was performed by GC-MS.

Test Result :

<b>Phthalates</b>	<b><u>Result</u> <u>(mg/kg)</u></b>	<b><u>Detection limit</u> <u>(mg/kg)</u></b>	<b><u>Reference Limit</u> <u>(mg/kg)</u></b>
	<b><u>1</u></b>		
Dibutyl Phthalate (DBP)	ND	30	1000
Benzylbutyl Phthalate (BBP)	ND	30	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	ND	30	1000
<b>Conclusion</b>	<b>Pass</b>		

- Note:
1. n.d.=not detected
  2. \* = exceed the limit
  3. 0.1% = 1000 mg/kg

Remark: The limit is referenced to the requirement stated in the San Francisco Superior Court, CGC-10-497729 and CGC-10-498981

### Total Cadmium

Test Method: Non-metal: With reference to EN 1122:2001 Method B - Analysis was performed by AAS.

Metal: In house method (Aqua Regia) – Sample was digested with concentrated acid. Analysis was performed by AAS or ICP-OES.

	<b><u>Result</u> <u>(ppm)</u></b>
	<b><u>1</u></b>
Cadmium (Cd)	n.d.
<b>Conclusion</b>	<b>Pass</b>

- Note:
- n.d. = not detected
  - \*= exceed the limit
  - Detection limit = 5 ppm
  - Burton Requirement: 100 ppm**
- Remark: Test was conducted in single trial.

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### Perfluorooctanesulfonate (PFOS) Content

Test Method: In-house method - solvent extraction. Analysis was conducted by LC-MS.

	<u>Result</u> ( $\mu\text{g}/\text{m}^2$ )	<u>Max. Limit</u> ( $\mu\text{g}/\text{m}^2$ ) (Textile / Coated Material)
	<u>1</u>	
PFOS - Acid	n.d.	/
PFOS - Metal salt		
PFOS - Amide	n.d.	/
Sum of PFOS derivatives	n.d.	1
<b>Conclusion</b>	<b>Pass</b>	

Note: n.d. = Not detected  
 \* = exceeds the limit  
 Detection limit = 1  $\mu\text{g}/\text{m}^2$  for Textile / Coated Material

Remark: Max. limit specified by commission regulation (EU) No. 757/2010 (previously restricted under entry 53 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006)

### Determination of Bally Flexing Resistance (ASTM D6182-2000(2005))

	<u>Room temp</u>	<u>-5°C</u>	<u>Requirement</u>
Test results:			
<u>After 20000 cycles</u>			
Extent of damage	No damage	No damage	No damage
Number of cracking	Nil	Nil	
Length of cracking (mm)	Nil	Nil	

Remarks: Apparatus: Bally flexometer

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\*\*\*\*\* End of Report \*\*\*\*\*

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