



Certificate of Test


CLIENT: Reflective Apparel Factory, Inc.
1649 Sands Place SE
Suite J
Marietta, GA
30064


Material Description: Soft Shell - Polyester Shell + TPU Laminate Film + Fleece Back
Fabric <input checked="" type="checkbox"/> Non-Fabric _____ (check one)
Lot #:
Manufacturer:
Color: Fluorescent Yellow


COMMENT: We certify that the sample identified above was tested in accordance with the specification and complies with the requirements for background material which is to be marketed as providing water resistance, waterproof protection and breathability as stated by ANSI/ISEA 107-2010.

TEXTTEST

Signed by

Material Description: Soft Shell - Polyester Shell + TPU Laminate Film + Fleece Back		Test Lab:  Report # 1239101			
Fabric <input checked="" type="checkbox"/> X <input type="checkbox"/> Non-Fabric <input type="checkbox"/> (check one)		Address: P.O. Box 1108 Phenix City, AL 36869			
Lot #:		Contact Person: Alan Lightholder			
Manufacturer:		Date Tested: 4/13/2011			
Color: Fluorescent Yellow					
TEST FOR ALL MATERIALS					
Test/Method	Section	ANSI/ISEA 107 Requirement	Test Result	Pass/ Fail/ NA	
Determination of Color ASTM E1164-09 (Single layer)	7.1.1	Test specimen must fulfill the colorimetric requirements of Table 2 for background material	As submitted:		
	7.2.4		x =	0.384	Pass
	9.2		y =	0.545	Pass
			%Y =	108.9	Pass
			After 40 AFU Xenon		
			x =	0.372	Pass
	y =	0.527	Pass		
	%Y =	110.8	Pass		
Determination of Color ASTM E1164-09 (Two layers of the same material)	7.1.1	Test specimen must fulfill the colorimetric requirements of Table 2 for background material	As submitted:		
	7.2.4		x =	NA	
	9.2		y =	NA	NA
			%Y =	NA	NA
			After 40 AFU Xenon		
			x =	NA	NA
	y =	NA	NA		
	%Y =	NA	NA		
Colorfastness Crocking AATCC 8-2007	7.2.1	Dry 3.0	5.0	Pass	
		Wet 3.0	4.5	Pass	
Colorfastness Perspiration AATCC 15-2007	7.2.2	Color Change 4.0	4.5	Pass	
		Staining 3.0	Acetate:	5.0	Pass
			Cotton:	5.0	Pass
			Nylon:	5.0	Pass
			Polyester:	5.0	Pass
			Acrylic:	5.0	Pass
			Wool:	4.5	Pass
Bursting Strength (Knitted) ASTM D 3787-07	7.4.1	267 N (27.2 kgf) (60 lbf)	216 lbs.	Pass	
Tear Resistance (Woven) ASTM D 1424-09	7.4.2	13 N (1326 gf) (2.92 lbf)		NA	
		Average force machine Average force cross-machine		NA	

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TESTED AS CARE LABEL DICTATES				
Test/Method	Section	ANSI/ISEA 107 Requirement	Test Result	Pass/ Fail/ NA
Colorfastness Domestic/Commercial Laundry AATCC 61-2007-3A 160° F	7.2.3 Table 3	Color change 4.5 Staining 3.0	Acetate: Cotton: Nylon: Polyester: Acrylic: Wool:	NA NA NA NA NA NA
Colorfastness Domestic/Commercial Laundry AATCC 61-2007-2A 105° F (modified)	7.2.3 Table 3	Color change 4.5 Staining 3.0	4.5 Acetate: 4.0 Cotton: 4.5 Nylon: 3.0 Polyester: 4.5 Acrylic: 5.0 Wool: 4.0	Pass Pass Pass Pass Pass Pass
Colorfastness Water AATCC 107-2007	7.2.3 Table 3	Color change 3.0 Staining 3.0	4.5 Acetate: 5.0 Cotton: 5.0 Nylon: 4.5 Polyester: 5.0 Acrylic: 5.0 Wool: 4.5	Pass Pass Pass Pass Pass Pass
Colorfastness Hypochlorite Bleaching (commercial) AATCC 61-2007-4A	7.2.3 Table 3	Fading 4.0		NA
Colorfastness Hypochlorite Bleaching (domestic) AATCC 61-2007-5A	7.2.3 Table 3	Fading 4.0	4.5	Pass
Colorfastness Hot-pressing AATCC 133-2004	7.2.3 Table 3	Color change 4.5 Staining 3.0	4.5 5.0	Pass Pass
Colorfastness Dry cleaning AATCC 132-2004	7.2.3 Table 3	Color change 4.0		NA

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TESTED AS CARE LABEL DICTATES (cont)

Test/Method	Section	ANSI/ISEA 107 Requirement	Test Result	Pass/ Fail/ NA
Dimensional change Domestic AATCC 135-2000 (3), III, B Machine Wash @ 105°F Permanent Press Cycle Line Dry	7.3.1	Woven L +/- 4% W +/- 2%	1st Cycle Length = Width = 5th Cycle Length = Width =	NA NA NA NA
		Knit L +/- 7% W +/- 5%	1st Cycle Length = Width = 5th Cycle Length = -1.8 Width = 0.0	NA NA Pass Pass
Dimensional change Commercial AATCC 96-2004 IIIc-A and/or E @ 145°F	7.3.1	Woven L +/- 4% W +/- 2%	1st Cycle Length = Width = 5th Cycle Length = Width =	NA NA NA NA
		Knit L +/- 7% W +/- 5%	1st Cycle Length = Width = 5th Cycle Length = Width =	NA NA NA NA
Dimensional change Dry Cleaning AATCC 158-2005	7.3.1	Woven L +/- 4% W +/- 2%	1st Cycle Length = Width = 5th Cycle Length = Width =	NA NA NA NA
		Knit L +/- 7% W +/- 5%	1st Cycle Length = Width = 5th Cycle Length = Width =	NA NA NA NA

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TESTED AS CARE LABEL DICTATES (cont)

Test/Method	Section	ANSI/ISEA 107 Requirement	Test Result	Pass/ Fail/ NA
Water Repellency AATCC 22-2005	7.5.1	90 new 70 after 5 washings		NA NA
Water Resistance AATCC 35-2006	7.5.2	≤ 1 gram of water penetration Initial After 5 washings	0.01 g. 0.00 g.	Pass Pass
Waterproof AATCC 127-2008	7.5.3	200 cm new and after 5 washings Initial After 5 washings	>200 cm >200 cm	Pass Pass
Breathability ASTM E96-05 Procedure B or BW	7.6	B - 600 g/m ² /24 hr microporous BW - 3600 g/m ² /24 hr hydrophilic	713 g/m ² /24 hr	Pass NA

