



**BUREAU
VERITAS**

Certificate of Test

We hereby declare that the item described below has been tested by the Merchandise Testing Laboratories (U.K.) Ltd. And complies with the requirements of

**ANSI/ISEA 107:2004 for Chromaticity (2 layers), Clause 7.1.1
Fastness to Crocking and Perspiration, Washing, Clause 7.2
Dimensional Stability on Washing (3) (III) (A) (iii), clause 7.3.1
Burst Strength, Clause 7.4.1**

*The full details of the tests and the results are given
in our reports*

TR2710/20054

Dated: 23/06/06

Description of item tested:

**HV Knitted Fabric
YD-014, Colour: Fluorescent Yellow, 130g/m² 150cm**

(Material: 100% polyester Tricot.
for items: VEA550, VEA551, VEA503X, VEA504)

Submitted by:



Reflective Apparel Factory
1649 Sands Place SE Suite J
Marietta, Georgia 30067

Certificate authorised by:

J. Moore

Title: J.Moore - Textile Technologist Issue Date: 23/06/06

Test Report

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Material Description: HV Knitted Fabric	Test Lab(s): Bureau Veritas Consumer Products Services
Fabric: YD-014, Colour: Fluorescent Yellow, 130g/m ² 150cm Lot # :	Address: Oakhurst House, 57 Ashbourne Road, Derby. DE22 3FS
Manufacturer:	Contact Person:
Colour: Fluorescent Yellow	Date Tested: 23 rd June 2006

ANSI/ISEA 107-2004 Background Material Testing Report

Required Tests				
Test/Method	Section	ANSI/ISEA 107 Requirement	Test Result	Pass/ Fail/ NA
Determination of color ASTM E1164-02 (Single layer)	7.1.1	Test specimen must fulfill the colorimetric requirements of Table 2 for background material	As submitted: x = 0.3717 y = 0.5432 %Y = 0.79 After 40x Xenon: x = 0.3734 y = 0.5169 %Y = 0.72	Pass Fail
Determination of Color ASTM E1164-94 (Two layers of the same material)	7.1.1 9.2	Test specimen must fulfil the colorimetric requirements of Table 2 for background material	As submitted: x = 0.3824 y = 0.5459 %Y = 0.96 After 40x Xenon: x = 0.3837 y = 0.5212 %Y = 0.87	Pass Pass
Colorfastness Crocking AATCC 8-2001	7.2.1	Dry 3.0 Wet 3.0	Dry: 4.5 Wet: 4.5	Pass
Colorfastness Perspiration AATCC 15-2000	7.2.2	Color change 4.0 Staining 3.0	Colour change: 4.5 Acetate: 4.5 Cotton: 4.5 Nylon: 4.5 Polyester: 4.5 Acrylic: 4/5 Wool: 4.5	Pass

Authorised by

J Moore
Miss J. Moore C.Text A.T.I.
Technical Textile
Testing Manager

S J C Welden
Mrs. S.J.C. Welden B.Sc. (Hons)
Deputy Technical Textile
Testing Manager

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Required Tests (continued)				
Test/Method	Section	ANSI/ISEA 107 Requirement	Test Result	Pass/ Fail/ NA
Dimensional change Domestic AATCC 135-2000 (3)IIIA(iii)@105°F Tested on 18493	7.3.1	Woven L+/- 4% W+/-2%	1 st Cycle: Length = Not tested Width = Not tested 5 th Cycle: Length = Not tested Width = Not tested	Pass
		Knitted L+/- 7% W+/-5%	1 st Cycle: Length = Not tested Width = Not tested 5 th Cycle: Length = -2.6 Width = - 0.6	
Bursting Strength (knitted) ASTM D3787-01 Tested on 18493	7.4.1	267 N (60lb) (27.2kg)	486.2 N	Pass
Tear Resistance(woven) ASTM D1424-96	7.4.2	13N (3lb) (1.3kg)	Average force machine Average force cross machine	
Breathability ASTM E96-00 Procedure B	7.6	600g/m ² /24 hr microporous 360g/m ² /24 hr hygroscopic		
Tested as care label dictates				
Test/Method	Section	ANSI/ISEA 107 Requirement	Test Result	Pass/ Fail/ NA
Colorfastness Domestic/Commercial Laundry AATCC 61-2001-2A 120°F	7.2.3 Table 4		Acetate:) Cotton:) Nylon:) Polyester:) Not tested Acrylic:) Wool:)	N/A
Colorfastness Domestic/Commercial Laundry AATCC 61-2001-2A 160°F	7.2.3 Table 4		Acetate:) Cotton:) Nylon:) Polyester:) Not tested Acrylic:) Wool:)	N/A
Colorfastness Domestic/Commercial Laundry AATCC 61-2001-2A 105°F	7.2.3 Table 4	Color change 4.5 Staining 3.0	Colour Change: 4.5 Acetate: 4.0 Cotton: 4.5 Nylon: 4.0 Polyester: 4.5 Acrylic: 4.5 Wool: 4.5	Pass

Authorised by *J. Moore*
Miss J. Moore C.Text A.T.I.
Technical Textile
Testing Manager

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Deputy Technical Textile
Testing Manager

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Accredited to the ISO/IEC Guide 17025: through UKAS system Laboratory Number 4021

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Tested as care label dictates				
Test/Method	Section	ANSI/ISEA 107 Requirement	Test Result	Pass/Fail/ NA
Colorfastness Water AATCC 107-2002	7.2.3 Table 4	Color change 3.0 Staining 3.0	Acetate:) Cotton:) Nylon:) Polyester:) Not tested Acrylic:) Wool:)	N/A
Colorfastness Hypochlorite Bleaching AATCC 61-2001-4A	7.2.3 Table 4	Fading 4.0	N/A	N/A
Colorfastness Hypochlorite Bleaching AATCC 61-2001-5A	7.2.3 Table 4	Fading 4.0	N/A	N/A
Colorfastness Hot Pressing AATCC 133-1999	7.2.3 Table 4	Color change 4.5 Staining 3.0	N/A	N/A
Colorfastness Dry Cleaning AATCC 132-2001-5A	7.2.3 Table 4	Color change 4.0	N/A	N/A
Dimensional change Commercial AATCC 96-1999 Ille-A and/or E@145°F	7.3.1	Woven L+/- 4% W+/-2%	1 st Cycle: Length = Not tested Width = Not tested 5 th Cycle: Length = Not tested Width = Not tested	N/A
		Knitted L+/- 7% W+/-5%	1 st Cycle: Length = Not tested Width = Not tested 5 th Cycle: Length = Not tested Width = Not tested	
Water Resistance AATCC 35-2000	7.5	1 gram of water penetration Level 1		N/A
Water Resistance AATCC 22-2001	7.5.1	90 new, 70 after 5 washings		N/A

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