

INTERTEK TEST REPORT

3933 US ROUTE 11

CORTLAND, NEW YORK 13045

REPORT NO.: G101511985CRT-001

RENDERED TO:

PORTWEST, LLC 1272 OMEGA PARKWAY SHEPERDSVILLE, KY 40165

STANDARDS USED:

ASTM F1790 - Standard Test Method for Measuring Cut Resistance of Materials Used in Protective Clothing 2005 Edition

CEN EN 388 - Protective Gloves Against Mechanical Risks 2003 Edition

ASTM D3389 - Standard Test Method for Coated Fabrics Abrasion Resistance (Rotary Platform Abrader) 2005 Edition

ASTM D3884 - Standard Guide for Abrasion Resistance of Textile Fabrics (Rotary Platform, Double-Head Method) 2009 Edition

CENELEC EN 420 – Protective Gloves – General Requirements and Test Methods 2003 Edition ASTM F1060 - Standard Test Method for Thermal Protective Performance of Materials for Protective Clothing for Hot Surface Contact 2008 Edition

ASTM F1358 - Standard Test Method for Effects of Flame Impingement on Materials Used in Protective Clothing Not Designated Primarily for Flame Resistance 1995 Edition

AUTHORIZATION:

The tests were authorized by Quote Number 500503128, 500516246, 500524406, 500530713 signed by Ray Carney and Robbie Irwin.

SPECIMEN DESCRIPTION:

The tests were performed on specimens identified by the client as: UA100GN, UA110WB, UA120BK, UA140BK, UA145Y4, UA146BK, UA150OR, UA210GR, UA220RE, UA300NA, UA310GR, UA320BK, UA330YE, UA340YE, UA500RE, UA530RB, UA620GR, UA621BK, UA622G7, UA710BK, UA725YE, UA740BK, and UA790BK. The samples previously described, were received in pristine condition between 01/08/2014 and 05/15/2014 and evaluated between 02/12/2014 and 06/12/2014. The testing was performed at Intertek located in Cortland, NY.

CONCLUSION:

The samples submitted by Portwest House, were evaluated in accordance with ASTM F1790 - Standard Test Method for Measuring Cut Resistance of Materials Used in Protective Clothing 2005 Edition; CEN EN 388 - Protective Gloves Against Mechanical Risks 2003 Edition; ASTM D3389 - Standard Test Method for Coated Fabrics Abrasion Resistance (Rotary Platform Abrader) 2005 Edition; ASTM D3884 - Standard Guide for Abrasion Resistance of Textile Fabrics (Rotary Platform, Double-Head Method) 2009 Edition; CENELEC EN 420 - Protective Gloves - General Requirements and Test Methods 2003 Edition; ASTM F1060 - Standard Test Method for Thermal Protective Performance of Materials for Protective Clothing for Hot Surface Contact 2008 Edition; ASTM F1358 - Standard Test Method for Effects of Flame Impingement on Materials Used in Protective Clothing Not Designated Primarily for Flame Resistance 1995 Edition. Test data sheets are attached as an appendix (71 pages following).

	ANSI 105 Rating					
	Cut	Puncture	Dexterity	Abrasion	Conductive	Flame
Test	ASTM			ASTM 3389-05 /	ASTM	ASTM
Standard	F1790-05	EN 388-03	EN 420-03	ASTM3884-09	F1060-08	F1358-95
Style	4 (4)		1011	- 1 1-14		
UA100GN	11	4	5	2	n/a	n/a
UA110WB	1	3	5	1	n/a	n/a
UA120BK	1	2	5	0	n/a	n/a
UA140BK	1	3	5	1	n/a	n/a
UA145Y4	2	3	5	1	5	n/a
UA146BK	2	3	5	1	5	n/a
UA1500R	1	2	5	1	n/a	n/a
UA210GR	0	4	4	3	n/a	n/a
UA220RE	2	5	4	4	n/a	n/a
UA300NA	1	2	5	3	n/a	n/a
UA310GR	0	2	5	2	n/a	n/a
UA320BK	1	2	5	3	n/a	n/a
UA330YE	1	2	5	0	n/a	n/a
UA340YE	1	2	5	2	n/a	n/a
UA500RE	1	5	4	3	n/a	4
UA530RB	1	5	3	4	n/a	4
UA620GR	1	4	5	2	n/a	n/a
UA621BK	2	4	5	3	n/a	n/a
UA622G7	3	5	4	2	n/a	n/a
UA710BK	1	3	4	3	n/a	n/a
UA725YE	2	4	4	3	n/a	n/a
UA740BK	1	3	5	2	n/a	n/a
UA790BK	4	4	5	n/a	n/a	n/a

Report Prepared by:

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ASTM F1790-2005

PRODUCT DESCRIPTION: Glove Palm - Style UA140BK

BLADE DESIGNATION: GRU-GRU TXTL BLD BLADE LOT ID: 3549-183-2013-570735-001001

CALIBRATION: (cut length for 1.57mm ± 0.05mm (0.062in ± 0.002in) thick Neoprene with 500 gm load):

(For Calibration - Blade travel distance between 10mm & 15mm)

Before Sample Testing (A): 13.82 mm

CB = [A+B)/2]: 13.42 mm

After Sample Testing (B): 13.01 mm Normalized Correction Factor (12.7/CB): 0.95

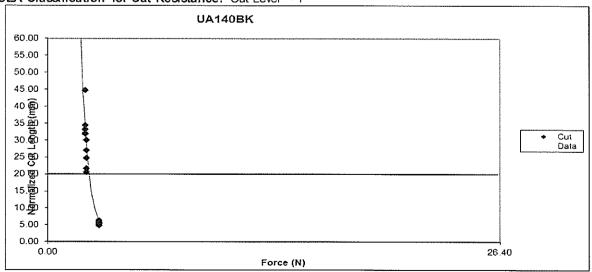
Date: October 28, 2014

Column	1	2	3
Reading Number	Force (N)	Cut Length (mm)	Normalized Cut Length (mm)
1	8.09	5.03	4.78
2	8.09	5.54	5.26
3	8.09	5.87	5.58
4	8.09	6.08	5.78
5	8.09	6.67	6.34
6	4.04	21.68	20.60
7	4.04	22.78	21.64
8	4.04	25.96	24.66
9	4.04	28.39	26.97
10	4.04	31.53	29.95
11	3.54	33.50	31.83
12	3.54	33.61	31.93
13	3.54	34.93	33.18
14	3.54	36.23	34.42
15	3.54	47.02	44.67

Normalized Reference Load (RL): 4.79 N (489 g)

Corrected Load: 1.031 R-Squared: 0.9714

ANSI/ISEA Classification for Cut Resistance: Cut Level - 1



CEN EN 388-2003

PRODUCT DESCRIPTION: Glove Palm - UA140BK (black coated)

CONDITIONING: In accordance with EN 388:2003; section 5.3, at a temperature 23°C \pm 2°C and a relative humidity of 50% \pm 5% for at least 24 hours. Per EN 388:2003; sec. 5.4: Test performed in a different environment shall be started within 5 minutes after removal from conditioning.

Specimen No.	Puncture No.	Force to Puncture (N)
	1	81.0
1	2	87.9
	3	99.0
	1	86.5
2	2	101.1
	3	106.6
	1	95.3
3	2	96.1
	3	93.5
	1	110.8
4	2	102.9
	3	96.2
Average		96.4

ANSI/ISEA 105-2011 Classification for Puncture Resistance (Table 2): 3

CEN EN 420-2003

PRODUCT DESCRIPTION: Whole Glove - UA140BK

Glove Size:	7/Small			Pin Diameter (mm)	
Able To Pick Up Pin?	11	9.5	8	6.5	5	Level
Sample 1	Yes	Yes	Yes	Yes	Yes	5
Sample 2	Yes	Yes	Yes	Yes	Yes	5

Glove Size:	Large		j	Pin Diameter (mm)	
Able To Pick Up Pin?	11	9.5	8	6.5	5	Level
Sample 1	Yes	Yes	Yes	Yes	Yes	5
Sample 2	Yes	Yes	Yes	Yes	Yes	5

ASTM D 3389-2005/ASTM D 3884-2009

PRODUCT DESCRIPTION: UA140BK (Yellow/Black) STANDARD: ASTM D 3389-05

THICKNESS: 2.00 mm WHEEL LOAD: 500 grams

	·	tion minimum reached.	
Specimen 1	162	Specimen 4	239
Specimen 2	230	Specimen 5	367

Notes: *Coating completely gone on surface of fabric strands. Sometime between 0-50 cycles the coating is worn away. Coating can be seen between the fabric strands.

ANSI/ISEA 105-2011 Classification for Abrasion Resistance (Table 3): 1