

TEST REPORT

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Report No.: FTL-999/140518
TRF No.: FTL-999/140518
Date In: 14th May, 2018
Date Out: 18th May 2018
No. Of Working Days: 04 Days
Page: 1 of 5
Pretest for Buyer Not Listed

Sample Description:	Rigger Gloves
Color(s):	White/Hi Viz Yellow
Lab Id Color(S):	-
P.O. No(s):	-
Article No(s):	GA-783
Season:	Not Listed
Quantity Submitted:	06 Pairs
Country of Origin:	Pakistan
Country of Destination:	Europe
Dept:	Not Listed
End Use:	Not Listed

Submitted Fiber Content:	Not Listed
Multi Layers	Crust Goatskin Water Proof Leather + Thinsulate +Micro Fleece
Test Requested:	EN: 388: 2016, EN: 420: 2003 +A1: 2009, ANSI/ISEA 105-11
Submitted Care Instruction:	Not Listed
Suggested Care Instruction:	Not Listed

If Retest

Previous Report No.:	Not Listed
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If Revision

Reason For Revision	Not Listed
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PHOTO OF THE SUBMITTED SAMPLE



Require Tests & Detail

Test Name:

Abrasion Resistance
Blade Cut
Tear Resistance
Puncture Resistance
Sizing
Dexterity
Blade Cut Resistance
Puncture Resistance
Abrasion Resistance

BS:EN: 388: 2016
BS:EN: 388: 2016
BS:EN: 388: 2016
BS:EN: 388: 2016
BS:EN: 420: 2003 + A1: 2009
BS:EN: 420: 2003 + A1: 2009
ANSI/ISEA 105-11
ANSI/ISEA 105-11
ANSI/ISEA 105-11

**FIRST TESTING LAB
AUTHORIZED SIGNATORIES**

Test Conducted by

Test Checked by

Approved By

Please Contact:

For any Technical Issues: Mr. Rehan Qamar
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SUMMARY OF TEST RESULTS

TEST PROPERTY	Standard Method	Results	Comments
ABRASION RESISTANCE	BS:EN: 388	Level-2	
BLADE CUT RESISTANCE	BS:EN: 388	Level-2	
TEAR RESISTANCE	BS:EN: 388	Level-2	
PUNCTURE RESISTANCE	BS:EN: 388	Level-2	
SIZING	BS:EN: 420	Pass	
DEXTERITY	BS:EN: 420	Level-5	
BLADE CUT RESISTANCE	ANSI/ISEA 105-11	Level-1	
PUNCTURE RESISTANCE	ANSI/ISEA 105-11	Level-3	
ABRASION RESISTANCE	ANSI/ISEA 105-11	Level-3	

Parameter	According to EN:388:2003	Test Requirement	Test Results	Remarks												
Abrasion Resistance (Cycles) Tested – Palm Portion Used abrasant: Klingspor PL 31 B	Clause 6.1	<table border="1"> <thead> <tr> <th>Level of Performance</th> <th>Number of Cycles</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>100</td> </tr> <tr> <td>2</td> <td>500</td> </tr> <tr> <td>3</td> <td>2000</td> </tr> <tr> <td>4</td> <td>8000</td> </tr> </tbody> </table>	Level of Performance	Number of Cycles	1	100	2	500	3	2000	4	8000	1800 Cycles	Complies with Level - 2		
Level of Performance	Number of Cycles															
1	100															
2	500															
3	2000															
4	8000															
Blade Cut Resistance (<i>i</i>) <i>Tested</i> – Palm <i>Blade Thickness</i> – 0.3 mm <i>Angle of Blade</i> – 24°	Clause 6.2	<table border="1"> <thead> <tr> <th>Level of Performance</th> <th>Index (<i>i</i>)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1.2</td> </tr> <tr> <td>2</td> <td>2.5</td> </tr> <tr> <td>3</td> <td>5.0</td> </tr> <tr> <td>4</td> <td>10.0</td> </tr> <tr> <td>5</td> <td>20.0</td> </tr> </tbody> </table>	Level of Performance	Index (<i>i</i>)	1	1.2	2	2.5	3	5.0	4	10.0	5	20.0	Average 1 – 2.9 Average 2 – 2.7	Level-2
Level of Performance	Index (<i>i</i>)															
1	1.2															
2	2.5															
3	5.0															
4	10.0															
5	20.0															
Tear Resistance (Newton) Tested – All Layers	Clause 6.3	<table border="1"> <thead> <tr> <th>Level of Performance</th> <th>Strength (N)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>10</td> </tr> <tr> <td>2</td> <td>25</td> </tr> <tr> <td>3</td> <td>50</td> </tr> <tr> <td>4</td> <td>75</td> </tr> </tbody> </table>	Level of Performance	Strength (N)	1	10	2	25	3	50	4	75	45.6 Newton	Level-2		
Level of Performance	Strength (N)															
1	10															
2	25															
3	50															
4	75															
Puncture Resistance (Newton) Tested – Palm All Layers Together	Clause 6.4	<table border="1"> <thead> <tr> <th>Level of Performance</th> <th>Strength (N)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>20</td> </tr> <tr> <td>2</td> <td>60</td> </tr> <tr> <td>3</td> <td>100</td> </tr> <tr> <td>4</td> <td>150</td> </tr> </tbody> </table>	Level of Performance	Strength (N)	1	20	2	60	3	100	4	150	74.56 Newton	Level-2		
Level of Performance	Strength (N)															
1	20															
2	60															
3	100															
4	150															

The specified performance levels only valid for the palm area.

Parameter	According to EN:420:2003	Test Requirement	Test Results	Remarks
Sizing in millimeters (mm)	Clause 5.1	Size	Lab Analysis	PASS
		Submitted Size: Small, Medium, Large, X-Large, XX-Large, XXX-Large	<p><u>Small</u> Length of Glove-230 Hand Length- 175 Circumference- 190 Size 7</p> <p><u>Medium</u> Length of Glove-240 Hand Length- 185 Circumference- 215 Size 8</p> <p><u>Large</u> Length of Glove-250 Hand Length- 200 Circumference- 225 Size 9</p> <p><u>X-Large</u> Length of Glove-260 Hand Length- 210 Circumference- 235 Size 10</p> <p><u>XX-Large</u> Length of Glove-270 Hand Length- 215 Circumference- 245 Size 11</p> <p><u>XXX-Large</u> Length of Glove-280 Hand Length- 225 Circumference- 255 Size 11</p>	
Dexterity in millimeters (mm)	Clause 5.2	Level of Performance	Pin – 5 mm	Level-5
		Diameter of Pins (mm)		
		1		
		2		
		3		
		4		
		5		

The above specified result valid for glove model.

Parameter	According to ANSI/ISEA 105-11	Test Requirement		Test Results	Remarks																			
Blade Cut Resistance	Clause 1	<table border="1"> <thead> <tr> <th>Level of Performance</th> <th>Strength (grams)</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>< 200</td> </tr> <tr> <td>1</td> <td>≥ 200</td> </tr> <tr> <td>2</td> <td>≥ 500</td> </tr> <tr> <td>3</td> <td>≥ 1000</td> </tr> <tr> <td>4</td> <td>≥ 1500</td> </tr> <tr> <td>5</td> <td>≥ 3500</td> </tr> </tbody> </table>	Level of Performance	Strength (grams)	0	< 200	1	≥ 200	2	≥ 500	3	≥ 1000	4	≥ 1500	5	≥ 3500	> 200 grams	Level-1						
Level of Performance		Strength (grams)																						
0	< 200																							
1	≥ 200																							
2	≥ 500																							
3	≥ 1000																							
4	≥ 1500																							
5	≥ 3500																							
Puncture Resistance (Newton) Tested – All Layers Together	Clause 2	<table border="1"> <thead> <tr> <th>Level of Performance</th> <th>Strength (Newton)</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>< 10</td> </tr> <tr> <td>1</td> <td>≥ 10</td> </tr> <tr> <td>2</td> <td>≥ 20</td> </tr> <tr> <td>3</td> <td>≥ 60</td> </tr> <tr> <td>4</td> <td>≥ 100</td> </tr> <tr> <td>5</td> <td>≥ 150</td> </tr> </tbody> </table>	Level of Performance	Strength (Newton)	0	< 10	1	≥ 10	2	≥ 20	3	≥ 60	4	≥ 100	5	≥ 150	74.56 Newton	Level-3						
Level of Performance		Strength (Newton)																						
0	< 10																							
1	≥ 10																							
2	≥ 20																							
3	≥ 60																							
4	≥ 100																							
5	≥ 150																							
Abrasion Resistance (Cycles) Tested – Material of Palm Used Abrasive wheel : H-18	Clause 3	<table border="1"> <thead> <tr> <th>Level of Performance</th> <th>Number of Cycles</th> </tr> </thead> <tbody> <tr> <td colspan="2">With 500 grams Weight</td> </tr> <tr> <td>0</td> <td>< 100</td> </tr> <tr> <td>1</td> <td>≥ 100</td> </tr> <tr> <td>2</td> <td>≥ 500</td> </tr> <tr> <td>3</td> <td>≥ 1000</td> </tr> <tr> <td colspan="2">With 1000 grams Weight</td> </tr> <tr> <td>4</td> <td>≥ 3000</td> </tr> <tr> <td>5</td> <td>≥ 10000</td> </tr> <tr> <td>6</td> <td>≥ 20000</td> </tr> </tbody> </table>	Level of Performance	Number of Cycles	With 500 grams Weight		0	< 100	1	≥ 100	2	≥ 500	3	≥ 1000	With 1000 grams Weight		4	≥ 3000	5	≥ 10000	6	≥ 20000	1183 Cycles	Compiles with Level - 3
Level of Performance		Number of Cycles																						
With 500 grams Weight																								
0	< 100																							
1	≥ 100																							
2	≥ 500																							
3	≥ 1000																							
With 1000 grams Weight																								
4	≥ 3000																							
5	≥ 10000																							
6	≥ 20000																							

The above specified result valid for glove model.

“End of Report”