

TEST REPORT

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Report No.: FTL-998/140518
TRF No.: FTL-998/140518
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:	Lineman Gloves
Color(s):	Brown
Lab Id Color(S):	
P.O. No(s):	-
Article No(s):	PE-861
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	Leather + Leather + Kevlar
Test Requested:	EN: 388: 2016 EN: 420: 2003 + A1: 2009, ANSI/ISEA 105-11
Submitted Care Instruction:	Fit for Special Purpose
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
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
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:

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SUMMARY OF TEST RESULTS

TEST PROPERTY	Standard Method	Results	Comments
ABRASION RESISTANCE	BS:EN: 388	Level-3	
BLADE CUT RESISTANCE	BS:EN: 388	Level-3	
TEAR RESISTANCE	BS:EN: 388	Level-4	
PUNCTURE RESISTANCE	BS:EN: 388	Level-3	
DEXTERITY	BS:EN: 420	Level-4	
BLADE CUT RESISTANCE	ANSI/ISEA 105-11	Level-3	
PUNCTURE RESISTANCE	ANSI/ISEA 105-11	Level-4	
ABRASION RESISTANCE	ANSI/ISEA 105-11	Level-4	

Parameter	According to EN:388:2016	Test Requirement		Test Results	Remarks											
Abrasion Resistance (Cycles) Tested – Palm Portion Used abradant: Klingspor PL 31 B	Clause 6.1	<table><tr><th>Level of Performance</th><th>Number of Cycles</th></tr><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></table>	Level of Performance	Number of Cycles	1	100	2	500	3	2000	4	8000	7497 Cycles	Compiles with Level - 3		
Level of Performance	Number of Cycles															
1	100															
2	500															
3	2000															
4	8000															
Blade Cut Resistance (<i>i</i>) Tested – All Layers Together. <i>Blade Thickness – 0.3 mm</i> <i>Angle of Blade – 24°</i>	Clause 6.2	<table><tr><th>Level of Performance</th><th>Index (<i>i</i>)</th></tr><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></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 – 8.65 Average 2 – 9.91	Level-3
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 Together.	Clause 6.3	<table><tr><th>Level of Performance</th><th>Strength (N)</th></tr><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></table>	Level of Performance	Strength (N)	1	10	2	25	3	50	4	75	> 75 Newton	Level-4		
Level of Performance	Strength (N)															
1	10															
2	25															
3	50															
4	75															
Puncture Resistance (Newton) Tested – All Layers Together	Clause 6.4	<table><tr><th>Level of Performance</th><th>Strength (N)</th></tr><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></table>	Level of Performance	Strength (N)	1	20	2	60	3	100	4	150	123.42 Newton	Level-3		
Level of Performance	Strength (N)															
1	20															
2	60															
3	100															
4	150															

specified performance levels only valid for the palm area.

The

Parameter	According to EN:420:2003 + A1: 2009	Test Requirement		Test Results	Remarks
		Size		Lab Analysis	
Dexterity in millimeters (mm)	Clause 5.2			Pin – 6.5 mm	Level-4
		Level of Performance	Diameter of Pins (mm)		
		1	11		
		2	9.5		
		3	8		
		4	6.5		
		5	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><tr><th>Level of Performance</th><th>Strength (grams)</th></tr><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></table>		Level of Performance	Strength (grams)	0	< 200	1	≥ 200	2	≥ 500	3	≥ 1000	4	≥ 1500	5	≥ 3500	> 500 grams	Level-2					
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><tr><th>Level of Performance</th><th>Strength (Newton)</th></tr><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></table>		Level of Performance	Strength (Newton)	0	< 10	1	≥ 10	2	≥ 20	3	≥ 60	4	≥ 100	5	≥ 150	123.42 Newton	Level-4						
	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><tr><th>Level of Performance</th><th>Number of Cycles</th></tr><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></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	4253 Cycles	Compiles with Level - 4
	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”