

TEST REPORT

COMPANY NAME:	MECDEX	Report No.:	FTL-422/101019
ADDRESS	LIBERMANN International P.O Box-1166 Harrar, Wazirabad Road, Sialkot-51310, Pakistan	TRF No.:	FTL-422/101019
EMAIL:	ali.anwar@libermann.com	Date In:	10 th Oct 2019
ATTN:	Ali Anwar	Date Out:	17 th Oct 2019
TEL:	+92 52 3252201-2	No. Of Working Days:	07 Days
FAX:	+92 52 3252208	Page:	1 of 4
		Pretest for Buyer	Not Listed

Sample Description:	Active Twin Gloves
Color(s):	Grey/Black/Yellow
Lab Id Color(S):	Grey/Black/Yellow
P.O. No(s):	Not Listed
Article No(s):	DY -814
Season:	Not Listed
Quantity Submitted:	10 Pairs
Country of Origin:	Pakistan
Country of Destination:	Europe
Dept:	Not Listed
End Use:	Not Listed

Submitted Fiber Content:	Not Listed
Multi Layers	Silicon Printed Synthetic Leather+3D Mesh Fabric+Lightweight Stretchable Spandex Fabric
Test Requested:	EN 388: 2016 + A1: 2018, EN 420: 2003 + A1: 2009
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

EN 388: 2016 + A1: 2018
EN 388: 2016 + A1: 2018
EN 388: 2016 + A1: 2018
EN 388: 2016 + A1: 2018
BS EN 420: 2003 + A1: 2009
BS EN 420: 2003 + A1: 2009

**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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Email: lab@nizamsons.com , lab@libermann.com

SUMMARY OF TEST RESULTS

TEST PROPERTY	Standard Method	Results	Comments
ABRASION RESISTANCE	EN 388: 2016 + A1: 2018	Level-3	
BLADE CUT RESISTANCE	EN 388: 2016 + A1: 2018	Level-1	
TEAR RESISTANCE	EN 388: 2016 + A1: 2018	Level-4	
PUNCTURE RESISTANCE	EN 388: 2016 + A1: 2018	Level-2	
SIZING	BS EN 420: 2003 + A1: 2009	Pass	
DEXTERITY	BS EN 420: 2003 + A1: 2009	N/A	

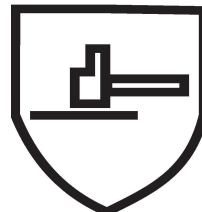
Parameter	EN 388: 2016 + A1: 2018	Test Requirement	Test Results	Remarks												
Abrasion Resistance (Cycles) Tested – Palm Portion Used abradant: Klingspor PL 31 B	Clause 6.1	<table border="1"> <thead> <tr> <th>Level of Performance</th> <th>Number of Cycles</th> </tr> </thead> <tbody> <tr> <td>1</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	3200 Cycles	Compiles with Level - 3		
		Level of Performance	Number of Cycles													
		1	100													
		2	500													
		3	2000													
4	8000															
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	> 1.2 & < 2.5 Index	Level-1
		Level of Performance	Index (<i>i</i>)													
		1	≥ 1.2													
		2	≥ 2.5													
		3	≥ 5.0													
4	≥ 10.0															
5	≥ 20.0															
1	≥ 1.2															
2	≥ 2.5															
3	≥ 5.0															
4	≥ 10.0															
5	≥ 20.0															
Tear Resistance (Newton) Tested – All Layers	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>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	> 75 Newton	Level-4		
		Level of Performance	Strength (N)													
		1	10													
		2	25													
		3	50													
4	75															
1	10															
2	25															
3	50															
4	75															
Puncture Resistance (Newton) Tested – Palm All Layers Together	Clause 6.5	<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	> 60 & < 100 Newton	Level-2		
		Level of Performance	Strength (N)													
		1	20													
		2	60													
		3	100													
4	150															
1	20															
2	60															
3	100															
4	150															

The specified performance levels are valid for only the palm area of this glove.

Parameter	EN 420: 2003 + A1: 2009	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>Small Circumference- 202 Size 7</p> <p>Medium Circumference- 227 Size 8</p> <p>Large Circumference- 238 Size 9</p> <p>X-Large Circumference- 254 Size 10</p> <p>XX-Large Circumference- 266 Size 11</p> <p>XXX-Large Circumference- 280 Size 11</p>	
Dexterity in millimeters (mm)	Clause 5.2	Level of Performance	Test is Not Applicable	N/A
		Diameter of Pins (mm)		
		1		
		2		
		3		
		4		
		5		

The above specified results are valid for only this glove model.

EN 388



3 1 4 2 X

“End of Report”