

# TEST REPORT

<b>COMPANY NAME:</b>	MECDEX	<b>Report No.:</b>	FTL-424/101019
<b>ADDRESS</b>	LIBERMANN International P.O Box-1166 Harrar, Wazirabad Road, Sialkot-51310, Pakistan	<b>TRF No.:</b>	FTL-424/101019
<b>EMAIL:</b>	ali.anwar@libermann.com	<b>Date In:</b>	10 <sup>th</sup> Oct 2019
<b>ATTN:</b>	Ali Anwar	<b>Date Out:</b>	17 <sup>th</sup> Oct 2019
<b>TEL:</b>	+92 52 3252201-2	<b>No. Of Working Days:</b>	07 Days
<b>FAX:</b>	+92 52 3252208	<b>Page:</b>	1 of 4
		<b>Pretest for Buyer</b>	Not Listed

<b>Sample Description:</b>	Miner Glow Gloves
<b>Color(s):</b>	Grey/Black/Red/Yellow/Hi-Viz Orange
<b>Lab Id Color(S):</b>	Grey/Black/Red/Yellow/Hi-Viz Orange
<b>P.O. No(s):</b>	Not Listed
<b>Article No(s):</b>	MN-813
<b>Season:</b>	Not Listed
<b>Quantity Submitted:</b>	10 Pairs
<b>Country of Origin:</b>	Pakistan
<b>Country of Destination:</b>	Europe
<b>Dept:</b>	Not Listed
<b>End Use:</b>	Not Listed

<b>Submitted Fiber Content:</b>	Not Listed
<b>Multi Layers</b>	PVC Kevlar Fabric+Synthetic Leather+Neoprene+2-Way Spandex Fabric+Lightweight Stretchable Spandex Fabric
<b>Test Requested:</b>	EN 388: 2016 + A1: 2018, EN 420: 2003 + A1: 2009
<b>Submitted Care Instruction:</b>	Not Listed
<b>Suggested Care Instruction:</b>	Not Listed

#### If Retest

<b>Previous Report No.:</b>	Not Listed
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#### If Revision

<b>Reason For Revision</b>	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  
Tel: +92 52 3252201 – 05  
Fax: +92 52 3252208  
Email: [lab@nizamsons.com](mailto:lab@nizamsons.com) , [lab@libermann.com](mailto:lab@libermann.com)

**SUMMARY OF TEST RESULTS**

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

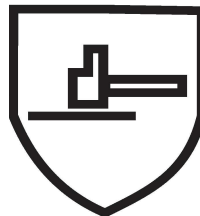
Parameter	EN 388: 2016 + A1: 2018	Test Requirement	Test Results	Remarks												
Abrasion Resistance (Cycles)  Tested – Palm Portion <b>Used abradant:</b> Klingspor PL 31 B	Clause 6.1	<table border="1"> <thead> <tr> <th>Level of Performance</th> <th>Number of Cycles</th> </tr> </thead> <tbody> <tr> <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><b>4</b></td> <td><b>8000</b></td> </tr> </tbody> </table>	Level of Performance	Number of Cycles	1	100	2	500	3	2000	<b>4</b>	<b>8000</b>	> 8000 Cycles	Compiles with Level – 4		
Level of Performance	Number of Cycles															
1	100															
2	500															
3	2000															
<b>4</b>	<b>8000</b>															
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><b>2</b></td> <td><b>≥ 2.5</b></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	<b>2</b>	<b>≥ 2.5</b>	3	≥ 5.0	4	≥ 10.0	5	≥ 20.0	> 2.5 & < 5.0 Index	Level-2
Level of Performance	Index ( <i>i</i> )															
1	≥ 1.2															
<b>2</b>	<b>≥ 2.5</b>															
3	≥ 5.0															
4	≥ 10.0															
5	≥ 20.0															
Tear Resistance (Newton)  <b>Tested</b> – 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><b>4</b></td> <td><b>75</b></td> </tr> </tbody> </table>	Level of Performance	Strength (N)	1	10	2	25	3	50	<b>4</b>	<b>75</b>	> 75 Newton	Level-4		
Level of Performance	Strength (N)															
1	10															
2	25															
3	50															
<b>4</b>	<b>75</b>															
Puncture Resistance (Newton)  <b>Tested</b> – 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><b>1</b></td> <td><b>20</b></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)	<b>1</b>	<b>20</b>	2	60	3	100	4	150	> 20 & < 60 Newton	Level-1		
Level of Performance	Strength (N)															
<b>1</b>	<b>20</b>															
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	<b>Size</b>	<b>Lab Analysis</b>	PASS
		Submitted Size: Small, Medium, Large, X-Large, XX-Large, XXX-Large	<p><b><u>Small</u></b> Length of Glove-236 Circumference- 230 Size 7</p> <p><b><u>Medium</u></b> Length of Glove-244 Circumference- 236 Size 8</p> <p><b><u>Large</u></b> Length of Glove-256 Circumference- 240 Size 9</p> <p><b><u>X-Large</u></b> Length of Glove-263 Circumference- 242 Size 10</p> <p><b><u>XX-Large</u></b> Length of Glove-272 Circumference- 246 Size 11</p> <p><b><u>XXX-Large</u></b> Length of Glove-284 Circumference- 250 Size 11</p>	
Dexterity in millimeters (mm)	Clause 5.2	<b>Level of Performance</b>	Level-4	Pass
		<b>Diameter of Pins (mm)</b>		
		1		
		2		
		3		
		4		
		5		

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

**EN 388**



**4 2 4 1 X**

“End of Report”