FIRST TESTING LAB

TEST REPORT

COMPANY NAME:	MECDEX	**Report No.:**	FTL-426/101019
ADDRESS	LIBERMANN International P.O Box-1166 Harrar, Wazirabad Road, Sialkot-51310, Pakistan	**TRF No.:**	FTL-426/101019
		Date In:	10th Oct 2019
		Date Out:	17th Oct 2019
EMAIL:	ali.anwar@libermann.com	**No. Of Working Days:**	07 Days
ATTN:	Ali Anwar	**Page:**	1 of 4
TEL:	+92 52 3252201-2	**Pretest for Buyer**	Not Listed
FAX:	+92 52 3252208		

Sample Description:	Grip Max Gloves
Color(s):	Grey/Black/Yellow
Lab Id Color(S):	Grey/Black/Yellow
P.O. No(s):	Not Listed
Article No(s):	DY-812
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	PU Diamond Serino Grip Material+Foam Padding+2-Way & Lightweight Stretchable Spandex Fabric+PU Binding
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

If Revision

Reason For Revision	Not Listed

PHOTO OF THE SUBMITTED SAMPLE

Require Tests & Detail

Test Name:	
Abrasion Resistance	EN 388: 2016 + A1: 2018
Blade Cut	EN 388: 2016 + A1: 2018
Tear Resistance	EN 388: 2016 + A1: 2018
Puncture Resistance	EN 388: 2016 + A1: 2018
Sizing	BS EN 420: 2003 + A1: 2009
Dexterity	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 , lab@libermann.com

SUMMARY OF TEST RESULTS

TEST PROPERTY	Standard Method	Results	Comments
ABRASION RESISTANCE	EN 388: 2016 + A1: 2018	Level-2	
BLADE CUT RESISTANCE	EN 388: 2016 + A1: 2018	Level-1	
TEAR RESISTANCE	EN 388: 2016 + A1: 2018	Level-2	
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	

<table>
<tr><th>Parameter</th><th>EN 388: 2016 + A1: 2018</th><th>Test Requirement</th><th>Test Results</th><th>Remarks</th></tr>
<tr><td>Abrasion Resistance (Cycles)

Tested – Palm Portion
Used abradant:
Klingspor PL 31 B</td><td>Clause 6.1</td><td><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></td><td>1650 Cycles</td><td>Compiles with Level – 2</td></tr>
<tr><td>Blade Cut Resistance (i)

Tested – Palm
Blade Thickness – 0.3 mm
Angle of Blade – 24°</td><td>Clause 6.2</td><td><table><tr><th>Level of Performance</th><th>Index (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></td><td>> 1.2 & < 2.5 Index</td><td>Level-1</td></tr>
<tr><td>Tear Resistance (Newton)

Tested – All Layers</td><td>Clause 6.4</td><td><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></td><td>> 25 Newton</td><td>Level-2</td></tr>
<tr><td>Puncture Resistance (Newton)

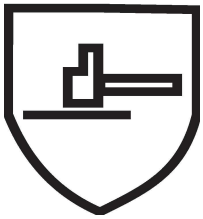
Tested – Palm All Layers Together</td><td>Clause 6.5</td><td><table><tr><th>Level of Performance</th><th>Strength (N)</th></tr><tr><td>1</td><td>20</td></tr><tr><td>2</td><td>60</td></tr><tr><td>3</td><td>100</td></tr><tr><td>4</td><td>150</td></tr></table></td><td>> 60 & < 100 Newton</td><td>Level-2</td></tr>
</table>

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

<table>
<tr><th>Parameter</th><th>EN 420: 2003 + A1: 2009</th><th>Test Requirement</th><th>Test Results</th><th>Remarks</th></tr>
<tr><td>Sizing in millimeters (mm)</td><td>Clause 5.1</td><td>Size
Submitted Size: Small, Medium, Large, X-Large, XX-Large, XXX-Large</td><td>Lab Analysis
<u>Small</u>
Length of Glove-238
Circumference- 228
Size 7
<u>Medium</u>
Length of Glove-248
Circumference- 234
Size 8
<u>Large</u>
Length of Glove-256
Circumference- 238
Size 9
<u>X-Large</u>
Length of Glove-268
Circumference- 244
Size 10
<u>XX-Large</u>
Length of Glove-276
Circumference- 250
Size 11
<u>XXX-Large</u>
Length of Glove-288
Circumference- 256
Size 11</td><td>PASS</td></tr>
<tr><td>Dexterity in millimeters (mm)</td><td>Clause 5.2</td><td><table><tr><th>Level of Performance</th><th>Diameter of Pins (mm)</th></tr><tr><td>1</td><td>11</td></tr><tr><td>2</td><td>9.5</td></tr><tr><td>3</td><td>8</td></tr><tr><td>4</td><td>6.5</td></tr><tr><td>5</td><td>5</td></tr></table></td><td>Level-5</td><td>Pass</td></tr>
</table>

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

EN 388



2 1 2 2 X

“End of Report”