

# TEST REPORT

**COMPANY NAME:** MECDEX (LIBERMANN INTERNATIONAL)  
**ADDRESS:** HARRAR, WAZIRABAD ROAD, SIALKOT, PAKISTAN  
**EMAIL:** [ali.anwar@libermann.com](mailto:ali.anwar@libermann.com)  
**ATTN:** Ali Anwar  
**TEL:** +92 52 3252201-2  
**FAX:** +92 52 3252208

**Report No.:** FTL-220/081017  
**TRF No.:** FTL-220/081017  
**Date In:** 8<sup>th</sup> Oct 2017  
**Date Out:** 12<sup>th</sup> Oct 2017  
**No. Of Working Days:** 04 Days  
**Page:** 1 of 4  
**Pretest for Buyer:** Not Listed

<b>Sample Description:</b>	General Application Gloves
<b>Color(s):</b>	Tacky Yellow
<b>GSM / Thickness:</b>	-
<b>Production Gate Pass (PGP):</b>	Not Listed
<b>Article No(s):</b>	GA-751 (Leather Pro C4)
<b>Reference:</b>	Not Listed
<b>Quantity Submitted:</b>	06 Pairs
<b>Country of Destination:</b>	Europe
<b>Customer:</b>	Not Listed
<b>End Use:</b>	Gloves
<b>Submitted Fiber Content:</b>	Not Listed
<b>Test Requested:</b>	EN: 388, EN: 420, ANSI/ISEA 105-11
<b>Submitted Care Instruction:</b>	Not Listed

## PHOTO OF THE SUBMITTED SAMPLE



## FIRST TESTING LAB AUTHORIZED SIGNATORIES



### Test Conducted 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)



### Test Checked by



### Approved by

**SUMMARY OF TEST RESULTS**

TEST PROPERTY	Standard Method	Results	Comments
ABRASION RESISTANCE	BS: EN: 388	Level-2	
BLADE CUT RESISTANCE	BS: EN: 388	Level-4	
TEAR RESISTANCE	BS: EN: 388	Level-3	
PUNCTURE RESISTANCE	BS: EN: 388	Level-1	
DEXTERITY	BS: EN: 420	Level-5	
BLADE CUT RESISTANCE	ANSI/ISEA 105-11	Level-3	
PUNCTURE RESISTANCE	ANSI/ISEA 105-11	Level-2	
ABRASION RESISTANCE	ANSI/ISEA 105-11	Level-3	

Parameter	According to EN:388:2016	Test Requirement	Test Results	Remarks											
Abrasion Resistance (Cycles)  Tested – Palm Portion <b>Used abrasant:</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>4</td> <td>8000</td> </tr> </tbody> </table>	Level of Performance	Number of Cycles	1	100	2	500	3	2000	4	8000	1420 Cycles	Compiles with Level -2	
		Level of Performance	Number of Cycles												
		1	100												
		2	500												
		3	2000												
4	8000														
Blade Cut Resistance ( <i>i</i> )	<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 – 13.9 Average 2 – 14.2	Level-4
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)	<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	56.49  Newton	Level-3		
Level of Performance	Strength (N)														
1	10														
2	25														
3	50														
4	75														
Puncture Resistance (Newton)	<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	58.22 Newton	Level-1		
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	<b>Size</b>	<b>Lab Analysis</b>	PASS
		Submitted Size: Small, Medium, Large, X-Large, XX-Large, XXX-Large	<p><b>Small</b> Length of Glove-230 Hand Length- 175 Circumference- 190 Size 7</p> <p><b>Medium</b> Length of Glove-240 Hand Length- 185 Circumference- 215 Size 8</p> <p><b>Large</b> Length of Glove-250 Hand Length- 200 Circumference- 225 Size 9</p> <p><b>X-Large</b> Length of Glove-260 Hand Length- 210 Circumference- 235 Size 10</p> <p><b>XX-Large</b> Length of Glove-270 Hand Length- 215 Circumference- 245 Size 11</p> <p><b>XXX-Large</b> Length of Glove-280 Hand Length- 225 Circumference- 255 Size 11</p>	
Dexterity in millimeters (mm)	Clause 5.2	<b>Level of Performance</b>	Pin – 5 mm	Level-5
		<b>Diameter of Pins (mm)</b>		
		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>&lt; 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	> 1000 grams	Level-3						
Level of Performance	Strength (grams)																							
0	< 200																							
1	≥ 200																							
2	≥ 500																							
3	≥ 1000																							
4	≥ 1500																							
5	≥ 3500																							
Puncture Resistance (Newton)  <b>Tested</b> – 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>&lt; 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	58.22 Newton	Level-2						
Level of Performance	Strength (Newton)																							
0	< 10																							
1	≥ 10																							
2	≥ 20																							
3	≥ 60																							
4	≥ 100																							
5	≥ 150																							
Abrasion Resistance (Cycles)  <b>Tested</b> – Material of Palm  <b>Used Abrasive wheel:</b> 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>&lt; 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	1950 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																							
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6	≥ 20000																							

The specified performance levels only valid for the palm area.

**“End of Report”**