

# TEST REPORT

**COMPANY NAME:** MECDEX (LIBERMANN INTERNATIONAL)  
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**Report No.:** FTL-231/081017  
**TRF No.:** FTL-231/081017  
**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>	Chainsaw Gloves
<b>Color(s):</b>	White/Hi-Vis Orange/Hi Vis Yellow
<b>GSM / Thickness:</b>	-
<b>Production Gate Pass (PGP):</b>	Not Listed
<b>Article No(s):</b>	CS-811 (Cutter)
<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**

  
**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-1	
TEAR RESISTANCE	BS: EN: 388	Level-2	
PUNCTURE RESISTANCE	BS: EN: 388	Level-2	
DEXTERITY	BS: EN: 420	Level-5	
BLADE CUT RESISTANCE	ANSI/ISEA 105-11	Level-1	
PUNCTURE RESISTANCE	ANSI/ISEA 105-11	Level-3	
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 abradant:</b> 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	2200 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> )  <i>Tested</i> – 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 – 1.8 Average 2 – 1.9	Level-1
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)  <b>Tested</b> – All Layers Together.	Clause 6.4	<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	45.50  Newton	Level-2		
Level of Performance	Strength (N)															
1	10															
2	25															
3	50															
4	75															
Puncture Resistance (Newton)  <b>Tested</b> – All Layers Together	Clause 6.5	<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	69.23 Newton	Level-2		
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	Size		Lab Analysis	PASS												
		Submitted Size: Small, Medium, Large, X-Large, XX-Large, XXX-Large		<u>Small</u> Length of Glove-230 Hand Length- 175 Circumference- 190 Size 7 <u>Medium</u> Length of Glove-240 Hand Length- 185 Circumference- 215 Size 8 <u>Large</u> Length of Glove-250 Hand Length- 200 Circumference- 225 Size 9 <u>X-Large</u> Length of Glove-260 Hand Length- 210 Circumference- 235 Size 10 <u>XX-Large</u> Length of Glove-270 Hand Length- 215 Circumference- 245 Size 11 <u>XXX-Large</u> Length of Glove-280 Hand Length- 225 Circumference- 255 Size 11													
Dexterity in millimeters (mm)	Clause 5.2	<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>		Level of Performance	Diameter of Pins (mm)	1	11	2	9.5	3	8	4	6.5	5	5	Pin – 5 mm	Level-5
Level of Performance	Diameter of Pins (mm)																
1	11																
2	9.5																
3	8																
4	6.5																
5	5																

Parameter	According to ANSI/ISEA 105-11	Test Requirement		Test Results	Remarks
Blade Cut Resistance	Clause 1	Level of Performance	Strength (grams)	> 200 grams	Level-1
		0	< 200		
		1	≥ 200		
		2	≥ 500		
		3	≥ 1000		
		4	≥ 1500		
		5	≥ 3500		
Puncture Resistance (Newton)  Tested – All Layers Together	Clause 2	Level of Performance	Strength (Newton)	69.23 Newton	Level-3
		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	Level of Performance	Number of Cycles	1600 Cycles	Compiles with Level-3
		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”