

TEST REPORT

COMPANY NAME:
ADDRESS

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Report No.:
TRF No.:
Date In:
Date Out:
No. Of Working Days:
Pretest for Buyer
Temperature & Humidity:

FTL-1324/021023
FTL-1324/021023
02nd Oct 2019
10th Oct 2019
08 Days
Not Listed
23°C ± 2 53 ± 5%

Sample Description:	EMBERARMOR Gloves
Color(s):	Black/Blue/Yellow
Lab Id Color(S):	Black/Blue/Yellow
P.O. No(s):	Not Listed
Article No(s):	FF-821
Season:	Not Listed
Quantity Submitted:	20 Pairs
Country of Origin:	Pakistan
Country of Destination:	Europe
Dept:	Not Listed
End Use:	Not Listed

Submitted Fiber Content:	Not Listed
Multi Layers	KN1402-TF Coated fabric + cut liner + water barrier
Test Requested:	EN 388:2016+A1:2018, EN 407:2020, EN ISO 21420:2020, EN 511:2006 & ANSI 105:2016
Submitted Care Instruction:	Not Listed
Suggested Care Instruction:	Not Listed

PHOTO OF THE SUBMITTED SAMPLE



EN 388:2016+A1:2018



3 X 3 2 C

EN 407:2020



4 3 3 1 X X

FIRST TESTING LAB
AUTHORIZED SIGNATORIES

A-Basif
Test Conducted by

Rehan
Test Checked by

[Signature]
Approved By

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	N/A	
TDM cut test	EN ISO 13997:	Level-C	
TEAR RESISTANCE	EN 388:2016+A1:2018	Level-3	
PUNCTURE RESISTANCE	EN 388:2016+A1:2018	Level-2	
SIZING	EN ISO 21420:2020	Pass	
DEXTERITY	EN ISO 21420:2020	Level-2	
BURNING BEHAVIOUR	EN 407:2020	4	
CONTACT HEAT	EN 407:2020	3	
CONVECTIVE HEAT	EN 407:2020	3	
RADIANT HEAT	EN 407:2020	1	
TDM Cut Resistance	ANSI/ISEA105-2016 (ASTM F2992)	Level-A3	
WATER PENETRATION	EN 511: 2006	Level-1	

Test Results:

Parameter	Test Requirement EN 388:2016+A1:2018		Test Results	Remarks
6.1 Abrasion Resistance (Rubs) Tested – Palm Portion Used abradant: Klingspor PL 31 B	Level of Performance	Number of Cycles	>2000 & <8000 Rubs	Level – 3
	1	100		
	2	500		
	3	2000		
	4	8000		
6.2 Blade Cut Resistance (i) Tested – Palm <i>Blade Thickness – 0.3 mm</i> <i>Angle of Blade – 24°</i>	Level of Performance	Index (i)	N/A	N/A
	1	> 1.2		
	2	≥ 2.5		
	3	≥ 5.0		
	4	≥ 10.0		
	5	≥ 20.0		
6.3 TDM Cut Resistance <i>EN ISO 13997: 2016</i> Tested – Palm <i>Type of Blade (Straight)</i>	Level of Performance	Cut Load N	>10 & <15 Newtons	Level-C
	A	> 2 Newtons		
	B	≥ 5 Newtons		
	C	≥ 10 Newtons		
	D	≥ 15 Newtons		
	E	≥ 22 Newtons		
	F	≥ 30 Newtons		
6.4 Tear Resistance (Newton)	Level of Performance	Strength (N)	>50 & <75 Newton	Level-3
	1	10		
	2	25		
	3	50		
	4	75		
6.5 Puncture Resistance (Newton)	Level of Performance	Strength (N)	>60 & <100 Newton	Level-2
	1	20		
	2	60		
	3	100		
	4	150		

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

Test Results:

Parameter	Test Requirement EN ISO 21420:2020		Test Results	Remarks												
5.1 Sizing	Size		Lab Analysis	PASS												
	Submitted Size: Small, Medium, Large, X-Large, XX-Large, XXX-Large		➤ Hand Length: All gloves meet the requirements of standard method. ➤ Circumference: All gloves meet the requirements of standard method.													
5.2 Dexterity Pin sizes in millimeters (mm)	<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	Level-2	Pass
Level of Performance	Diameter of Pins (mm)															
1	11															
2	9.5															
3	8															
4	6.5															
5	5															

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

Parameter	Test Requirement of EN 407:2020			Test Results	Remarks
6.2 Limited Flame Spread EN 407:2020	Levels	After Flame Time	After Glow Time	AFT= ≤ 2 AGT= ≤ 5	Level – 4
	1	≤ 20 Seconds	No Require		
	2	≤ 10 Seconds	≤ 120		
	3	≤ 3 Seconds	≤ 25		
	4	≤ 2 Seconds	≤ 5		
6.3 Contact Heat EN 407:2020	Levels	°C Contact Temperature	Threshold Time (S)	≥ 15 Sec @ 350 °C	Level-3
	1	100	≥ 15		
	2	250	≥ 15		
	3	350	≥ 15		
	4	500	≥ 15		
6.4 Convective Heat EN 407:2020	Performance Level		Heat Transfer Index (HTI)	> 10 Seconds	Level-3
	1		≥ 4 Sec		
	2		≥ 7 Sec		
	3		≥ 10 Sec		
	4		≥ 18 Sec		
6.5 Radiant Heat EN 407:2020	Performance Level		Heat Transfer T ₂₄ (Sec)	> 7 Seconds	Level-1
	1		≥ 7 Sec		
	2		≥ 20 Sec		
	3		≥ 50 Sec		
	4		≥ 95 Sec		

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

Test Results:

Parameter	EN 511: 2006	Test Requirement		Test Results	Remarks
Water Penetration	Clause 3	Level of Performance	Water Penetration	Pass	Level - 1
		0	Yes		
		1	No		

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

Test results:

Parameter	Test Requirement ANSI/ISEA 105-2016		Test Results	Remarks
6.3 TDM Cut Resistance ANSI/ISEA105-2016 (ASTM F2992) <i>Tested</i> – Palm <i>Type of Blade (Straight)</i>		Level of Performance	Cut Load N	>1000 & <1500 Grams Level-A3
		A1	> 200 Grams	
		A2	≥ 500 Grams	
		A3	≥ 1000Grams	
		A4	≥ 1500 Grams	
		A5	≥ 2200 Grams	
		A6	≥ 3000 Grams	
		A7	≥ 4000 Grams	
		A8	≥ 5000 Grams	
		A9	≥ 6000 Grams	

“End of Report”