

TEST REPORT

COMPANY NAME: TrangoTek™
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Report No.: FTL-1405/050923
TRF No.: FTL-1405/050923
Date In: 05th Sep 2023
Date Out: 11th Sep 2023
No. Of Working Days: 07 Days
Pretest for Buyer: Not Listed
Temperature & Humidity: 23°C ± 2 53 ± 5%

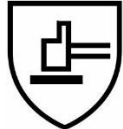
Sample Description:	Thin Guard NF 18A3
Color(s):	Black/ Green
Lab Id Color(S):	Black/ Green
P.O. No(s):	Not Listed
Article No(s):	NF 18A3
Season:	Not Listed
Quantity Submitted:	10 Pairs
Country of Origin:	Pakistan
Country of Destination:	Europe
Dept:	Not Listed
End Use:	Not Listed

Submitted Fiber Content:	Not Listed
Multi Layers	Nitrile Foam Coated on Palm
Test Requested:	EN 388:2016+A1:2018, EN ISO 21420:2020,ANSI CUT
Submitted Care Instruction:	Not Listed
Suggested Care Instruction:	Not Listed

PHOTO OF THE SUBMITTED SAMPLE



EN388: 2016 +A1:2018



4 X 4 3 C

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-4	
BLADE CUT RESISTANCE	EN 388:2016+A1:2018	Level-X	
TDM CUT RESISTANCE	EN 388:2016+A1:2018	Level-C	
TEAR RESISTANCE	EN 388:2016+A1:2018	Level-4	
PUNCTURE RESISTANCE	EN 388:2016+A1:2018	Level-3	
ANSI Cut Resistance	ANSI/ISEA105-2016 (ASTM F2992)	Level-A3	
SIZING	EN ISO 21420:20020	Pass	
DEXTERITY	EN ISO 21420:20020	N/A	

Test Results:

Parameter	Test Requirement EN 388:2016+A1:2018	Test Results	Remarks														
6.1 Abrasion Resistance (Cycles) Tested – Palm Portion Used abradant: Klingspor PL 31 B	<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	>8000 Cycles	Compiles with Level - 4				
Level of Performance	Number of Cycles																
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>	<table border="1"> <thead> <tr> <th>Level of Performance</th> <th>Index (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)	1	> 1.2	2	≥ 2.5	3	≥ 5.0	4	≥ 10.0	5	≥ 20.0	-	Level-X		
Level of Performance	Index (i)																
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>	<table border="1"> <thead> <tr> <th>Level of Performance</th> <th>Cut Load N</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>> 2 Newtons</td> </tr> <tr> <td>B</td> <td>≥ 5 Newtons</td> </tr> <tr> <td>C</td> <td>≥ 10 Newtons</td> </tr> <tr> <td>D</td> <td>≥ 15 Newtons</td> </tr> <tr> <td>E</td> <td>≥ 22 Newtons</td> </tr> <tr> <td>F</td> <td>≥ 30 Newtons</td> </tr> </tbody> </table>	Level of Performance	Cut Load N	A	> 2 Newtons	B	≥ 5 Newtons	C	≥ 10 Newtons	D	≥ 15 Newtons	E	≥ 22 Newtons	F	≥ 30 Newtons	>10 & <15 Newtons	Level-C
Level of Performance	Cut Load N																
A	> 2 Newtons																
B	≥ 5 Newtons																
C	≥ 10 Newtons																
D	≥ 15 Newtons																
E	≥ 22 Newtons																
F	≥ 30 Newtons																
6.4 Tear Resistance (Newton) Tested – All Layers	<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	>75 Newton	Level-4				
Level of Performance	Strength (N)																
1	10																
2	25																
3	50																
4	75																
6.5 Puncture Resistance (Newton) Tested – Palm All Layers Together	<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	>100 & <150 Newton	Level-3				
Level of Performance	Strength (N)																
1	20																
2	60																
3	100																
4	150																

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

Parameter	Test Requirement ANSI/ISEA 105-2016		Test Results	Remarks	
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		
		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			
			> 1000 & < 1500 Grams	Level-A3	

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

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	<ul style="list-style-type: none"> ➤ 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)	Level of Performance	Diameter of Pins (mm)	Level-5 Pass
	1	11	
	2	9.5	
	3	8	
	4	6.5	
	5	5	

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

“End of Report”