



**REPORT NUMBER:** 36688-25  
**RECEIVING DATE:** Dec 01, 2025  
**REPORT ISSUE DATE:** Dec 08, 2025  
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**Applicant:** Billoo PPE Private Limited / Forte Gloves  
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Sample submitted and identified as:

<b>Manufacturer:</b>	Billoo PPE Private Limited / Forte Gloves
<b>Buyer:</b>	/
<b>Article No:</b>	Law Enforcement Glove
<b>Style No:</b>	BFG-233 / BFG-236
<b>PPE Type:</b>	Gloves
<b>PPE Category:</b>	II
<b>Color:</b>	/
<b>Prev. Report:</b>	/
<b>Size Range:</b>	/
<b>Country of Origin:</b>	Pakistan
<b>Country of Destination:</b>	/
<b>Sample description:</b>	Elite Tactical Glove in Cowhide Semi-Aniline WR Black Leather with Grippy Finish, Lined with UMWP Fabric for Optimum Cut & Tear Resistance. Elasticated Wrist, BFG-233 with Black Rubber Padding & Velcro Strap with Rubber. Touch sensitive Fabric Patch on Finger / Thumb.
<b>Testing period:</b>	01 December 2025 – 08 December 2025

Signed on the behalf of:  
Tti Testing Laboratories

**Ali Ashraf**  
AVP Softlines

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## Conclusion:

Sr. No	Test properties	Test Standard	Performance Levels
1.	Abrasion Resistance	EN 388:2016+A1:2018 § 6.1	Level 2
2.	Blade cut resistance – Coupe test	EN 388:2016+A1:2018 § 6.2	Not Recommended
3.	Cut resistance – TDM	EN 388:2016 +A1:2018 § 6.3	Level D
4.	Tear resistance	EN 388:2016+A1:2018 § 6.4	Level 4
5.	Puncture Resistance	EN 388:2016+A1:2018 § 6.5	Level 2

## Samples conditioning:

The test specimens are conditioned in controlled environment maintained at  $23\pm 2^{\circ}\text{C}$  and  $50\pm 5\%$  relative humidity for 24 hours.

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### Test Results:

1. **Abrasion Resistance:**

EN 388:2016+A1:2018 § 6.1

Abrasive Paper: Klingspor PL31B, Grit 180

Adhesive Tape: Polyken® tape<sup>4</sup>

Pre-Treatment: Original state

(Palm Area)	Unit	Leather	Lining	Sum	Requirement
Specimen 1:	Rubs	>500-<2000	>500-<2000	>500-<2000	/
Specimen 2:		>500-<2000	>500-<2000	>500-<2000	
Specimen 3:		>2000-<8000	>500-<2000	>2000-<8000	
Specimen 4:		>2000-<8000	>500-<2000	>2000-<8000	
Minimum value:		>500-<2000			
<b>Performance Level:</b>		<b>2</b>			

Test parameter	Performance levels			
	1	2	3	4
Abrasion resistance – (minimum number of rubs)	100	500	2000	8000

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**2. Blade Cut Resistance:**

EN 388:2016+A1:2018 § 6.2

Pre-Treatment: Original state

**Palm Area: Leather + Lining**

Test Specimen No: 1

Sequence	Control Specimen		Test Specimen		Control Specimen		C <sub>n</sub>	I <sub>n</sub>
1	C <sub>1</sub>	0.9	T <sub>1</sub>	60.2	C <sub>2</sub>	17.1	0.9	7.68
2	C <sub>2</sub>	/	T <sub>2</sub>	/	C <sub>3</sub>	/	/	/
3	C <sub>3</sub>	/	T <sub>3</sub>	/	C <sub>4</sub>	/	/	/
4	C <sub>4</sub>	/	T <sub>4</sub>	/	C <sub>5</sub>	/	/	/
5	C <sub>5</sub>	/	T <sub>5</sub>	/	C <sub>6</sub>	/	/	/
							Index 1	7.68

Test Specimen No: 2

Sequence	Control Specimen		Test Specimen		Control Specimen		C <sub>n</sub>	I <sub>n</sub>
1	C <sub>1</sub>	0.8	T <sub>1</sub>	60.5	C <sub>2</sub>	25.3	0.8	5.63
2	C <sub>2</sub>	/	T <sub>2</sub>	/	C <sub>3</sub>	/	/	/
3	C <sub>3</sub>	/	T <sub>3</sub>	/	C <sub>4</sub>	/	/	/
4	C <sub>4</sub>	/	T <sub>4</sub>	/	C <sub>5</sub>	/	/	/
5	C <sub>5</sub>	/	T <sub>5</sub>	/	C <sub>6</sub>	/	/	/
							Index 2	5.63

<b>Test Status</b>	<b>Not Recommended</b>
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**Remarks:**

The coupe test is not an appropriate method for the submitted sample due to the material of the glove dulling the blades as the number of cycles C<sub>n+1</sub> is greater than 3 times C<sub>n</sub> after the first sequence. It is recommended to use the TDM blade cut test (EN ISO 13997:1999) for assessing protection against cut risk.

**Note:** Blades: OLFA® RB 45mm

Control Fabric: Cotton Canvas

Test parameter	Performance levels				
	1	2	3	4	5
Cut resistance – Coupe test (minimum index)	1.2	2.5	5.0	10	20

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**3. Cut Resistance – TDM:**

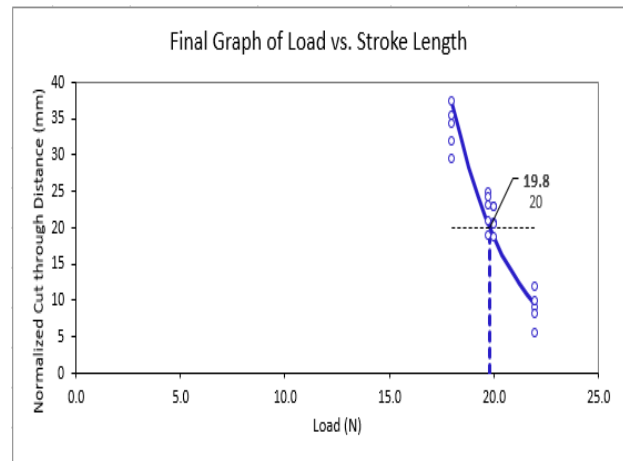
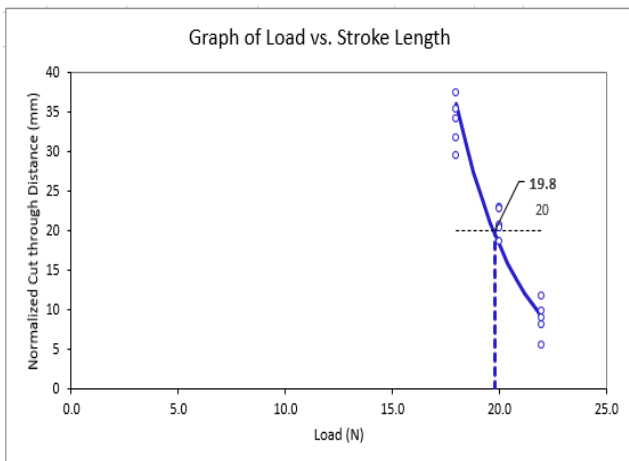
EN 388:2016+A1:2018 § 6.3  
 Test in accordance with EN ISO 13997:1999  
 Pre-Treatment: Original state  
 Blade Designation: GRU-TXTL BLD 88-0121-0000  
 Mass per unit area: /  
 Thickness of material: 1.87mm  
**Palm Area: Leather + Lining**

Sample cut	Force (N)	Distance (mm)	Y(Normalized) (mm)	Y <sup>1</sup> =log10y (mm)
1	22.0	10.2	8.98	0.95
2	22.0	13.4	11.79	1.07
3	22.0	11.2	9.86	0.99
4	22.0	6.2	5.46	0.74
5	22.0	9.3	8.18	0.91
6	20.0	23.5	20.68	1.32
7	20.0	21.1	18.57	1.27
8	20.0	26.0	22.88	1.36
9	20.0	25.9	22.79	1.36
10	20.0	23.2	20.42	1.31
11	18.0	33.5	29.48	1.47
12	18.0	38.9	34.23	1.53
13	18.0	36.1	31.77	1.50
14	18.0	42.5	37.40	1.57
15	18.0	40.2	35.38	1.55
First Estimate	19.7	26.3	23.14	1.36
		21.5	18.92	1.28
		23.8	20.94	1.32
		28.1	24.73	1.39
		27.4	24.11	1.38
Interpolated force (N) to cut after 20 mm of blade travel			19.81	
<b>Level Achieved</b>			<b>D</b>	

r <sup>2</sup>	0.8816
Reference distance, mm	20.0
Standard deviation, N	0.6
95% Confidence limit, N	±1.2
Average blade sharpness correction factor	0.880

**Table 2 - Levels of performance for materials tested with EN ISO 13997**

Test	Levels					
	A	B	C	D	E	F
6.3 TDM: Cut Resistance (N)	2	5	10	15	22	30



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**4. Tear Resistance:**

EN 388:2016+A1:2018 § 6.4

Pre-Treatment: Original state

(Palm Area)	Unit	Direction	Lining	Requirement
Specimen 1:	N	1	>75	/
Specimen 2:		1	>75	
Specimen 3:		2	>75	
Specimen 4:		2	>75	
Minimum value:		/	>75	
<b>Performance Level:</b>			<b>4</b>	

Test parameter	Performance levels			
	1	2	3	4
Tear resistance (Minimum force N)	10	25	50	75

**5. Puncture Resistance:**

EN 388:2016+A1:2018 § 6.5

Pre-Treatment: Original state

Palm Area: Leather + Lining	Unit	Results	Requirement
Specimen 1:	N	75	/
Specimen 2:		77	
Specimen 3:		79	
Specimen 4:		78	
Minimum value:		75 ± 3.45	
<b>Performance Level:</b>		<b>2</b>	

Test parameter	Performance levels			
	1	2	3	4
Puncture resistance (Minimum force – N)	20	60	100	150

**Remarks:**

The reported expanded uncertainty is based on combined standard uncertainty multiplied by a coverage factor k=2, providing a coverage probability of approximately 95%.

----- END OF REPORT -----

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