

# TEST REPORT

Report No.: S241011226\_2

28 October 2024

**APPLICANT:** SUZHOU MYDELLAN NMT CO., LTD  
苏州麦德纶材料科技有限公司

warren@mydellan.com

215341 NO.288 HUANGPUJIANG SOUTH  
ROAD, KUNSHAN, CHINA

Date of receipt : 22 Oct. 2024  
Testing period : 23 Oct. 2024  
: 24 Oct. 2024

**Buyer:** —

**Sample description:** Ultra Fabric 柔性防身服面料 (无玻纤无钢丝无树脂)

Test(s) requested :—

Service : REGULAR

Brand / Section :—

Season :—

End use :—

Factory name :—

Factory code :—

Previous report :—

Product category :—

Product type :—

Test stage : FIRST TEST

Supplier name :—

Exported to :—

## 1. Conclusion:

	Tests description	Result
	<b>ANSI-ISEA 105: 2016</b>	
1	Cutting resistance TDM(ANSI)	Level A9

	Tests description	Result
	<b>EN 388:2016+A1:2018</b>	
2	Abrasion resistance: 2016	Level 4
3	Cut resistance: 2016	Level 4
4	Cutting resistance TDM	Level F
5	Tear strength resistance: 2016	Level 4
6	Puncture resistance: 2016	Level 4

Pass: requirements met    Fail: requirements not met    None: no requirement for this test    N/A: not applicable

Approved by



Henry YAN  
Laboratory Manager

This test report in version S241011226\_2 supersedes the report S241011226\_1

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To conclude the conformity to the requirement, the uncertainty of measurement, associated to the test results, has not been taken into account.



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## 2. Sample(s) description assigned by laboratory:

<u>Size</u>	<u>Analyzed product</u>	<u>Description</u>	<u>Sample information</u>
	MATERIAL	material	
		material	



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### 3. MATERIAL/

material

	Method	Client Requirement	Unit	Result	Conformity
(+) <b>4.1. Abrasion resistance: 2016</b> used consumables - abrasive used consumables - adhesive Number of cycles at the hole detection Number of cycles at the hole detection (2) Number of cycles at the hole detection (3) Number of cycles at the hole detection (4) Performance level	EN 388:2016 + A1:2018			Klingspor PL31B Grit 180 3M Scotch >8000 >8000 >8000 >8000 4	
(+) <b>4.1. Cut resistance: 2016</b> Deviation from the test method used consumables - canvas used consumables - blade C1 T1 1C1 I1 C2 T2 1C2 I2 C3 T3 1C3 I3 C4 T4 1C4 I4 C5	EN 388:2016 + A1:2018			No LEM 6 OLFA RB45 1.2 60.0 5.4 19.2 1.1 60.0 5.2 20.0 1.2 60.0 5.7 18.4 1.1 60.0 5.2 20.0 1.2	

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	Method	Client Requirement	Unit	Result	Conformity
T5				60.0	
1C5				5.1	
I5				20.0	
Mean value of test piece 1				19.5	
C1 bis				1.2	
T1 bis				60.0	
2C1bis				5.2	
I1 bis				19.8	
C2 bis				1.2	
T2 bis				60.0	
2C2bis				5.2	
I2 bis				19.8	
C3 bis				1.1	
T3 bis				60.0	
2C3bis				5.3	
I3 bis				19.8	
C4 bis				1.2	
T4 bis				60.0	
2C4bis				5.3	
I4 bis				19.5	
C5 bis				1.2	
T5 bis				60.0	
2C5bis				4.8	
I5 bis				21.0	
Mean value of test piece 2				19.9	
Considered value				19.5	
Performance level				4	
Observation				First sequence Cn+1 higher than 3xCn, switch to EN13997	
<b>(+) 4.1. Cutting resistance TDM</b>	EN ISO 13997:1999				
used consumables - blade				20240460	
Coefficient of variation			%	3.1	
Adjusted factor for blade with neoprene				0.94	

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	Method	Client Requirement	Unit	Result	Conformity
Mean cut length on neoprene for a load of 5.0 N			mm	21.1	
Normalized cutting stroke lengths			mm	19.9	
Normalized cutting stroke lengths (2)			mm	12.7	
Normalized cutting stroke lengths (3)			mm	21.2	
Normalized cutting stroke lengths (4)			mm	11.4	
Normalized cutting stroke lengths (5)			mm	31.8	
Mean normalized cutting stroke length			mm	19.4	
Cut load adjusted for a cut length of 20 mm			N	61.9	
Performance level				Level F	
(+) <b>4.1. Tear strength resistance: 2016</b>	EN 388:2016 + A1:2018				
Tear strength			N	>75	
Tear strength (2)			N	>75	
Tear strength (3)			N	>75	
Tear strength (4)			N	>75	
Performance level				4	
(+) <b>4.1. Puncture resistance: 2016</b>	EN 388:2016 + A1:2018				
Puncture resistance			N	422	
Puncture resistance (2)			N	406	
Puncture resistance (3)			N	330	
Puncture resistance (4)			N	356	

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	Method	Client Requirement	Unit	Result	Conformity
Performance level				4	

## material

	Method	Client Requirement	Unit	Result	Conformity
(+) <b>5.1.1. Cutting resistance TDM(ANSI)</b> Correction factor of the sharp edge of the blade with the neoprene Load for a distance of 20 mm cut Performance level	ASTM F2992 /F2992M - 15		g	0.94  6199 Level A9	

## END OF TEST REPORT

(+)CNAS accreditation

Unless otherwise specified, the physical test items in this report performed in CTC Shanghai lab were conditioned and tested in the environment of T 23±2°C / RH 50±4%.

Table of Performance Level for Glove

Test Item	Performance Level					
	0##	1	2	3	4	5
<b>Abrasion Resistance (EN 388)</b> Number of cycles (minimum)	<100	100	500	2000	8000	---
<b>Blade Cut Resistance (EN 388)</b> Index (I) (minimum)	<1.2	1.2	2.5	5.0	10.0	20.0
<b>Tear Resistance (EN 388)</b> Force (N) (minimum)	<10	10	25	50	75	---
<b>Puncture Resistance (EN 388)</b> Force (N) (minimum)	<20	20	60	100	150	---

## Performance level 0 means the glove falls below the minimum performance level for the given individual hazard

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### Classification Table for Cut Resistance (ANSI-ISEA 105)

Level	Weight (grams) needed to cut through material with 20 mm of blade travel
A1	>=200
A2	>=500
A3	>=1000
A4	>=1500
A5	>=2200
A6	>=3000
A7	>=4000
A8	>=5000
A9	>=6000

### Levels of performance for materials tested with EN ISO 13997

	Level A	Level B	Level C	Level D	Level E	Level F
<b>6.3 TDM: cut resistance (N)</b>	2	5	10	15	22	30

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