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Report No.: S190607820\_1

01 July 2019

APPLICANT: APPLICANT: SHANGHAI MENGNUO INDUSTRIAL CO.LTD

上海孟诺实业有限公司

上海市金山区

JINSHAN SHANGHAI CHINA

Date of receipt : 14 June 2019

Testing period : 14 June 2019

: 28 June 2019

Buyer: ---

Style / Article no. : Mn-gr400

Test(s) requested : ---

Service : REGULAR

Brand / Section : Mn/孟诺

Season : ---

End use : 400度耐高温手套

Factory name : ---

Factory code : ---

**For CE Marking : Yes**

Previous report : ---

Product category : ---

Product type : ---

Test stage : FIRST TEST

Supplier name : ---

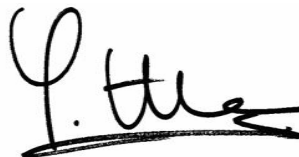
Exported to : ---

## 1. Conclusion:

	Tests description	Conformity
	<b>EN 407</b>	
1	Abrasion resistance : 2016	Level 2
2	Cut resistance : 2016	Level 3
3	Tear strength resistance: 2016	Level 4
4	Puncture resistance: 2016	Level 3
5	Burning behaviour	Level 4
6	Contact heat	Level 2

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

Approved by



Henry YAN  
Laboratory Manager

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孟诺实业有限公司 (C40074)

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

<u>Size</u>	<u>Analyzed product</u>	<u>Description</u>	<u>Sample information</u>
	GLOVE	Whole glove Palm	



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### 3. GLOVE/

Whole glove

	Method	Client Requirement	Unit	Result	Conformity
<b>▲ 5.1. Burning behaviour</b>	EN 407 : 2004				
<i>Remark: Outer material is broken after 15s burning</i>					
Ignition 3 sec - After flame time			Seconds	0	
Ignition 3 sec - After glow time			Seconds	0	
Ignition 3 sec - Degradation due to fusion				No damage	
Ignition 15 sec - After flame time			Seconds	2	
Ignition 15 sec - After glow time			Seconds	0	
Ignition 15 sec - Degradation due to fusion				No damage	
Performance level				4	

Palm

	Method	Client Requirement	Unit	Result	Conformity
<b>(+) 4.1. Cut resistance : 2016</b>	EN 388 : 2016				
Deviation from the test method				No	
used consumables - canvas				LEM 6	
used consumables - blade				OLFA RB45	
C1				1.3	
T1				6.7	
1C1				1.4	
I1				6.0	
C2				1.4	
T2				10.4	
1C2				1.4	
I2				8.4	
C3				1.4	
T3				12.4	
1C3				1.4	
I3				9.9	
C4				1.4	
T4				15.4	

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	Method	Client Requirement	Unit	Result	Conformity
1C4				1.4	
I4				12.0	
C5				1.4	
T5				16.7	
1C5				1.4	
I5				12.9	
Mean value of test piece 1				9.8	
C1 bis				0.9	
T1 bis				4.4	
2C1bis				1.2	
I1 bis				5.2	
C2 bis				1.2	
T2 bis				5.7	
2C2bis				1.2	
I2 bis				5.8	
C3 bis				1.2	
T3 bis				8.7	
2C3bis				1.2	
I3 bis				8.3	
C4 bis				1.2	
T4 bis				11.7	
2C4bis				1.3	
I4 bis				10.4	
C5 bis				1.3	
T5 bis				13.4	
2C5bis				1.4	
I5 bis				10.9	
Mean value of test piece 2				8.1	
Considered value				8.1	
Performance level				3	
Observation				No comment	
(+) <b>4.1. Puncture resistance: 2016</b>	EN 388 : 2016				
Puncture resistance			N	120	

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	Method	Client Requirement	Unit	Result	Conformity
Puncture resistance (2)			N	105	
Puncture resistance (3)			N	118	
Puncture resistance (4)			N	124	
Performance level				3	
<b>(+) 4.3. Abrasion resistance : 2016</b>	EN 388 : 2016				
Deviation from the test method used consumables - abrasive				No Klingspor PL31B Grit 180	
used consumables - adhesive				3M Scotch	
Number of cycles at the hole detection				1050	
Number of cycles at the hole detection (2)				1250	
Number of cycles at the hole detection (3)				950	
Number of cycles at the hole detection (4)				850	
Performance level				2	
<b>(+) 4.4. Tear strength resistance: 2016</b>	EN 388 : 2016				
Tear strength			N	>75	
Tear strength (2)			N	>75	
Tear strength (3)			N	>75	
Tear strength (4)			N	>75	
Performance level				4	
<b>▲ 5.2. Contact heat</b>	EN 407 : 2004				
Threshold time at 100 °C			Seconds	101.5	
Threshold time at 100 °C (2)			Seconds	94.2	
Threshold time at 100 °C (3)			Seconds	91.4	
Average at 100 °C			Seconds	96	
Threshold time at 250 °C			Seconds	25.7	
Threshold time at 250 °C (2)			Seconds	27.9	
Threshold time at 250 °C (3)			Seconds	25.6	
Average at 250 °C			Seconds	26	
Threshold time at 350 °C			Seconds	14.6	
Threshold time at 350 °C (2)			Seconds	14.3	
Threshold time at 350 °C (3)			Seconds	13.9	

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	Method	Client Requirement	Unit	Result	Conformity
Average at 350 °C Performance level			Seconds	14 Level 2	

### END OF TEST REPORT

(+)CNAS accreditation

▲: The test was carried out by external accredited laboratory under their accreditation scope.

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	---
<b>Burning behaviour (EN 407)</b> After flame time (s)	---	<=20	<=10	<=3	<=2	---
After glow time (s)	---	---	<=120	<=25	<=5	---
<b>Contact heat (EN 407)</b> Contact temperature Tc (°C)	---	100	250	350	500	---
Threshold time tt (s)	---	>=15	>=15	>=15	>=15	---

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