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# **TEST REPORT**

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Report No.: S240606017 1

21 June 2024

APPLICANT: JIANGSU TONSUN SAFETY PRODUCTS CO., LTD (C34720) A2#512, NO777 JIANZHU WEST ROAD WUXI JIANGSU CHINA

Date of receipt :13 June 2024 :18 June 2024 Testing period :21 June 2024 Buyer: ---13G CUT-A9 liner, Foam Nitrile palm coating with nitrile dots Sample description: :C17590 Style / Article no. Test(s) requested :---

Service	: REGULAR	Previous report	:
Brand / Section	:	Product category	:
Season	:	Product type	:
End use	:	Test stage	:FIRST TEST
Factory name	:	Cumulian name	:
r dotory name	•	Supplier name	•
Factory code	:	Supplier name Exported to	:

1. Conclusion:

	Tests description	<u>Conformity</u>
	EN 388:2016+A1:2018	
1	Abrasion resistance: 2016	Level 4
2	Cutting resistance TDM	Level F
3	Tear strength resistance: 2016	Level 4
4	Puncture resistance: 2016	Level 3

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

Approved by

Henry YAN 严滨 Laboratory Manager



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To declare 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:

Size	Analyzed product	Description	Sample information				
	GLOVE						
		black(orange/white)					
		nitrile(HPPE(high performance					
	polyethylene)/tungsten/steel) with						
		orange nitrile dots palm					



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## 3. GLOVE/

black(orange/white) nitrile(HPPE(high performance polyethylene)/tungsten/steel) with orange
nitrile dots palm

(+)       4.1. Abrasion resistance: 2016       EN 388:2016 + A1:2018       Klingspor PL31B Grit 180         used consumables - abrasive       3M Scotch         Number of cycles at the hole detection       >8000         Number of cycles at the hole detection (2)       >8000         Number of cycles at the hole detection (3)       >8000         Number of cycles at the hole detection (4)       >8000         Performance level       4         (+)       4.1. Cutting resistance TDM       20240224         Coefficient of variation       %       2.3         Adjusted factor for blade with neoprene       0.94         Mean cut length on neoprene for a load of 5.0 N       mm         Normalized cutting stroke lengths       mm         Normalized cutting stroke lengths (2)       mm         Normalized cutting stroke lengths (3)       mm         Normalized cutting stroke lengths (5)       mm         Mean normalized cutting stroke length       mm         Stock and adjusted for a cut length of 20 mm       mm         Performance level       M         Alguest det for a cut length of 20 mm       M         Performance level       Level F		Method	Client Requirement	Unit	Result	Conformity
IndexIndexIndexused consumables - adhesiveIndex3M ScotchNumber of cycles at the hole detectionIndex8000Number of cycles at the hole detection (3)Index8000Number of cycles at the hole detection (4)Index8000Performance levelIndex8000(+) <b>4.4</b> (+) <b>4.4</b> (+) <b>4.</b> 20240224(-)IndexIndex(-)Index </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
Number of cycles at the hole detection (2)SecondSecondNumber of cycles at the hole detection (3)SecondSecondNumber of cycles at the hole detection (4)SecondSecondPerformance levelMumber of cycles at the hole detection (4)SecondSecondPerformance levelMumber of cycles at the hole detection (4)SecondSecond(+) <b>4.</b> Mumber of cycles at the hole detection (4)SecondSecond(+) <b>4.</b> SecondSecondSecond(+) <b>4.</b> SecondSecondSecond(-)SecondSecondSecondSecond(-)SecondSecondSecondSecond(-)SecondSecondSecondSecond(-)SecondSecondSecondSecond(-)SecondSecondSecondSecond(-)SecondSecondSecondSecond(-)SecondSecondSecondSecond(-)SecondSecondSecondSecond(-)SecondSecondSecond<	used consumables - abrasive					
Number of cycles at the hole detection (2) Number of cycles at the hole detection (3)>8000Number of cycles at the hole detection (4)>8000Performance level4(+) <b>4.1. Cutting resistance TDM</b> EN ISO 13997:199920240224used consumables - blade%2.3Coefficient of variation%2.3Adjusted factor for blade with neoprene%9.4Mornalized cutting stroke lengthsMm21.2Normalized cutting stroke lengths (3)Mm9.8Normalized cutting stroke lengths (5)Mm33.5Mean normalized cutting stroke lengthsMm30.7Normalized cutting stroke lengthMm20.3Normalized cutting stroke lengthMm30.7Normalized cutting stroke lengthMm30.7Normalized cutting stroke lengthMm30.3Mean normalized cutting stroke lengthMm30.3Normalized cutting stroke lengthMm30.3Mean normalized cutting stroke lengthMm30.3Normalized cutting stroke lengthMm30.3Mean normalized cu	used consumables - adhesive				3M Scotch	
Number of cycles at the hole detection (3) Number of cycles at the hole detection (4)>8000Performance level-4(+)4.1. Cutting resistance TDMEN ISO 13997:199920240224used consumables - blade%2.3Coefficient of variation%2.3Adjusted factor for blade with neoprene0.94Mean cut length on neoprene for a load of 5.0 Nmm21.2Normalized cutting stroke lengthsmm5.6Normalized cutting stroke lengths (3)mm9.8Normalized cutting stroke lengths (5)mm33.5Mean normalized cutting stroke lengths (5)mm20.3Normalized cutting stroke lengthMm20.3Normalized cutting stroke lengths (5)mm33.5Mean normalized cutting stroke lengthMm20.3Normalized cutting stroke lengthMm39.7Normalized cutting stroke lengthMm39.7Normalized cutting stroke lengths (5)Mm33.5Mean normalized cutting stroke lengthMm20.3Normalized cutting stroke lengthMm39.2	Number of cycles at the hole detection				>8000	
Number of cycles at the hole detection (4) Performance level>8000>8000Performance level44(+) 4.1. Cutting resistance TDMEN ISO 13997:199920240224used consumables - blade%2.3Coefficient of variation%2.3Adjusted factor for blade with neoprene%0.94Mean cut length on neoprene for a load of 5.0 Nmm21.2Normalized cutting stroke lengthsmm5.6Normalized cutting stroke lengths (2)mm9.8Normalized cutting stroke lengths (3)mm9.8Normalized cutting stroke lengths (5)mm33.5Mean normalized cutting stroke lengthmm20.3Normalized cutting stroke lengthMm20.3Normalized cutting stroke lengthMm39.7Normalized cutting stroke lengths (5)Mm30.2Mean normalized cutting stroke lengthMm20.3Mean normalized cutting stroke lengthMm39.2	Number of cycles at the hole detection (2)				>8000	
Performance levelImage: Construction of the second sec	Number of cycles at the hole detection (3)				>8000	
(+)4.1. Cutting resistance TDMEN ISO 13997:1999EN ISO 13997:199920240224used consumables - blade%2.32.3Coefficient of variation%2.30.94Adjusted factor for blade with neoprene0.94mm21.2Mean cut length on neoprene for a load of 5.0 Nmm5.6mmNormalized cutting stroke lengthsmm5.6mmNormalized cutting stroke lengths (2)mm9.89.8Normalized cutting stroke lengths (3)mm9.830.7Normalized cutting stroke lengths (5)mm33.53.5Mean normalized cutting stroke lengthmm20.3NCut load adjusted for a cut length of 20 mmmm39.239.2	Number of cycles at the hole detection (4)				>8000	
13997:1999Image: space	Performance level				4	
Coefficient of variation%2.3Adjusted factor for blade with neoprene0.940.94Mean cut length on neoprene for a load of 5.0 Nmm21.2Normalized cutting stroke lengthsmm5.6Normalized cutting stroke lengths (2)mm13.1Normalized cutting stroke lengths (3)mm9.8Normalized cutting stroke lengths (4)mm39.7Normalized cutting stroke lengths (5)mm33.5Mean normalized cutting stroke lengthmm20.3Mean normalized cutting stroke lengthMm39.2	(+) 4.1. Cutting resistance TDM					
Adjusted factor for blade with neoprene0.94Mean cut length on neoprene for a load of 5.0 Nmm21.2Normalized cutting stroke lengthsmm5.6Normalized cutting stroke lengths (2)mm13.1Normalized cutting stroke lengths (3)mm9.8Normalized cutting stroke lengths (4)mm39.7Normalized cutting stroke lengths (5)mm20.3Mean normalized cutting stroke lengthmm20.3Cut load adjusted for a cut length of 20 mmNN39.2	used consumables - blade				20240224	
Mean cut length on neoprene for a load of 5.0 Nmm21.2Normalized cutting stroke lengthsmm5.6Normalized cutting stroke lengths (2)mm13.1Normalized cutting stroke lengths (3)mm9.8Normalized cutting stroke lengths (4)mm39.7Normalized cutting stroke lengths (5)mm33.5Mean normalized cutting stroke lengthmm20.3Mean normalized cutting stroke lengthMm39.2	Coefficient of variation			%	2.3	
5.0 NImage: Solution of the second of the secon	Adjusted factor for blade with neoprene				0.94	
Normalized cutting stroke lengths (2)mm13.1Normalized cutting stroke lengths (3)mm9.8Normalized cutting stroke lengths (4)mm39.7Normalized cutting stroke lengths (5)mm33.5Mean normalized cutting stroke lengthmm20.3Cut load adjusted for a cut length of 20 mmN39.2				mm	21.2	
Normalized cutting stroke lengths (3)mm9.8Normalized cutting stroke lengths (4)mm39.7Normalized cutting stroke lengths (5)mm33.5Mean normalized cutting stroke lengthmm20.3Cut load adjusted for a cut length of 20 mmN39.2	Normalized cutting stroke lengths			mm	5.6	
Normalized cutting stroke lengths (4)mm39.7Normalized cutting stroke lengths (5)mm33.5Mean normalized cutting stroke lengthmm20.3Cut load adjusted for a cut length of 20 mmN39.2	Normalized cutting stroke lengths (2)			mm	13.1	
Normalized cutting stroke lengths (5)mm33.5Mean normalized cutting stroke lengthmm20.3Cut load adjusted for a cut length of 20 mmN39.2	Normalized cutting stroke lengths (3)			mm	9.8	
Mean normalized cutting stroke length     mm     20.3       Cut load adjusted for a cut length of 20 mm     N     39.2	Normalized cutting stroke lengths (4)			mm	39.7	
Cut load adjusted for a cut length of 20 mm 39.2	Normalized cutting stroke lengths (5)			mm	33.5	
mm	Mean normalized cutting stroke length			mm	20.3	
Performance level Level F				N	39.2	
	Performance level				Level F	

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			CO., LTD (C34720)			
	Method	Client Requirement	Unit	Result	Conformity	
	60.00 50.00 40.00 30.00 10.00 0.00	r=-105.4ln(x) + 895.29 R <sup>4</sup> = 0.5272	6000			
(+) 4.1. Tear strength resistance: 2016	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		
(+) 4.1. Puncture resistance: 2016	EN 388:2016 + A1:2018					
Puncture resistance			N	108		
Puncture resistance (2)			N	104		
Puncture resistance (3)			N	114		
Puncture resistance (4)			N	109		
Performance level				3		

## 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			Performa	nce Level		
	0##	1	2	3	4	5
Abrasion Resistance (EN 388) Number of cycles (minimum)	<100	100	500	2000	8000	



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Tear Resistance (EN 388) Force (N) (minimum)	<10	10	25	50	75	
Puncture Resistance (EN 388) 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

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

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

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