

TEST REPORT

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Report No.: S210706710_1

22 July 2021

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APPLICANT: NANTONG JIADELI SAFETY PRODUCTS CO. LTD
南通嘉得利 (C00498)

Shuangdian Industrial park C Rudong
Jiangsu, China
226400 RUDONG
CHINA

Date of receipt : 16 July 2021
Testing period : 19 July 2021
: 22 July 2021

Buyer: ---

Sample description: 13 gauge white nylon glove, with white PU coated on fingertips

Style / Article no. : PN8011
Test(s) requested : ---
Service : REGULAR
Brand / Section : ---
Season : ---
End use : ---
Factory name : ---
Factory code : ---

For CE Marking : Yes

Previous report : ---
Product category : ---
Product type : ---
Test stage : FIRST TEST
Supplier name : ---
Exported to : ---

1. Conclusion:

	<u>Tests description</u>	<u>Conformity</u>
	EN ISO 21420/EN 388	
1	Abrasion resistance: 2016	Level 1
2	Cut resistance: 2016	Level 1
3	Tear strength resistance: 2016	Level 3
4	Puncture resistance: 2016	Level 1
5	pH - Textile (KCl solution)	Pass
6	Dimethylformamide (DMF/DMFo/DMFa)	Pass
7	Polycyclic Aromatic Hydrocarbons (8)	Pass
8	Dexterity	Level 5
9	XRF screening	Pass
10	XRF screening (Tin)	Pass
11	Phthalates	Pass

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



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Approved by

Henry YAN 严滨
Laboratory Manager

Yvonne MAO 茅璇怡
Senior Analytical Chemical Engineer

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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>
	GLOVE	Whole glove white nylon palm white nylon/elastic cuff white PU(nylon) fingertips	



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3. GLOVE/

Whole glove

	Method	Client Requirement	Unit	Result	Conformity
▲ 4.2. Dimethylformamide (DMF/DMFo/DMFa)	EN 16778: 2016				Pass
Dimethylformamide			mg/kg	300.1	
Dimethylformamide (2)			mg/kg	292.0	
Dimethylformamide - average		<1000	mg/kg	296.1	
(+) 5.2. Dexterity	EN ISO 21420: 2020				
Smallest diameter of pin fulfilling test condition			mm	5.0	
Smallest diameter of pin fulfilling test condition (2)			mm	5.0	
Smallest diameter of pin fulfilling test condition (3)			mm	5.0	
Smallest diameter of pin fulfilling test condition (4)			mm	5.0	
Performance level				5	

white nylon palm

	Method	Client Requirement	Unit	Result	Conformity
(+) 4.1. Abrasion resistance: 2016	EN 388:2016 + A1:2018				
Deviation from the test method used consumables - abrasive				No	
used consumables - adhesive				Klingspor PL31B Grit 180	
Number of cycles at the hole detection				3M Scotch	
Number of cycles at the hole detection (2)				380	
Number of cycles at the hole detection (3)				350	
Number of cycles at the hole detection (4)				400	
Performance level				480	
				1	
(+) 4.1. Cut resistance: 2016	EN 388:2016 + A1:2018				
Deviation from the test method used consumables - canvas				No	
used consumables - blade				LEM 6	
C1				OLFA RB45	
				1.3	

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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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	Method	Client Requirement	Unit	Result	Conformity
T1				0.3	
1C1				1.3	
I1				1.2	
C2				1.3	
T2				0.8	
1C2				1.3	
I2				1.6	
C3				1.3	
T3				0.3	
1C3				1.3	
I3				1.2	
C4				1.3	
T4				0.6	
1C4				1.3	
I4				1.5	
C5				1.3	
T5				0.5	
1C5				1.3	
I5				1.4	
Mean value of test piece 1				1.4	
C1 bis				1.2	
T1 bis				0.7	
2C1bis				1.2	
I1 bis				1.6	
C2 bis				1.2	
T2 bis				0.4	
2C2bis				1.3	
I2 bis				1.3	
C3 bis				1.3	
T3 bis				0.7	
2C3bis				1.3	
I3 bis				1.5	
C4 bis				1.3	
T4 bis				0.3	

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	Method	Client Requirement	Unit	Result	Conformity
2C4bis				1.3	
I4 bis				1.2	
C5 bis				1.3	
T5 bis				0.7	
2C5bis				1.3	
I5 bis				1.5	
Mean value of test piece 2				1.4	
Considered value				1.4	
Performance level				1	
Observation				No comment	
(+) 4.1. Tear strength resistance: 2016	EN 388:2016 + A1:2018				
Tear strength			N	74	
Tear strength (2)			N	72	
Tear strength (3)			N	71	
Tear strength (4)			N	69	
Performance level				3	
(+) 4.1. Puncture resistance: 2016	EN 388:2016 + A1:2018				
Puncture resistance			N	45	
Puncture resistance (2)			N	40	
Puncture resistance (3)			N	46	
Puncture resistance (4)			N	37	
Performance level				1	
(+) 4.2. pH - Textile (KCl solution)	ISO 3071:2020				Pass
pH value		3.5< - <9.5		7.2	

white nylon/elastic cuff

	Method	Client Requirement	Unit	Result	Conformity
(+) 4.2. pH - Textile (KCl solution)	ISO 3071:2020				Pass
pH value		3.5< - <9.5		7.3	

white PU(nylon) fingertips

	Method	Client Requirement	Unit	Result	Conformity

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	Method	Client Requirement	Unit	Result	Conformity
(+) 4.2. pH - Textile (KCl solution) pH value	ISO 3071:2020	3.5< - <9.5		7.3	Pass
▲ 4.2. Polycyclic Aromatic Hydrocarbons (8) Benzo(a)anthracene Chrysene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Dibenzo(a,h)anthracene Benzo(e)pyrene Benzo(j)fluoranthene	ISO/TS 16190:2013	<1 <1 <1 <1 <1 <1 <1 <1	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	<0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	Pass
(+) XRF screening Cd (Cadmium)	ASTM F2617 – 15	<100	ppm	<100	Pass
XRF screening (Tin) Sn (Tin)	ASTM F2617 – 15	<150	ppm	<150	Pass
Phthalates BBP . Butyl benzyl phthalate DBP . Di-butyl phthalate DEHP . Di-(2-ethylhexyl) phthalate DIBP . Di-iso-butyl phthalate	CEN ISO TS 16181 : 2011	<0.1 <0.1 <0.1 <0.1	% % % %	<0.0025 <0.0025 <0.0025 <0.0025	Pass

END OF TEST REPORT

(+)CNAS accreditation

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

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
Abrasion Resistance (EN 388) Number of cycles (minimum)	<100	100	500	2000	8000	---
Blade Cut Resistance (EN 388) Index (I) (minimum)	<1.2	1.2	2.5	5.0	10.0	20.0

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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	---
Finger dexterity (EN ISO 21420) Smallest diameter of pin fulfilling test conditions (mm)	---	11.0	9.5	8.0	6.5	5.0

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