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Page 1/6

Report No.: S200808191_1

19 August 2020

APPLICANT: RAXWELL INDUSTRIAL TECHNOLOGY
(SHANGHAI) CO. LTD 瑞氮维尔工业科技 (上海) 有限公司 (C41441)

3501, 5F SUNPLUS BUILDING, NO. 1077
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上海市浦东新区祖冲之路1077号凌阳大厦5楼3501
SHANGHAI
CHINA

Date of receipt : 13 Aug. 2020

Testing period : 13 Aug. 2020

: 19 Aug. 2020

Franky YANG / franky_yang@raxwell.cn

Buyer: —

Sample description: RW2432Raxwell 涤纶针织PU工作手套, 掌浸/RW2432Raxwell Polyester Knit Glove with Palm-Dipped Polyurethane Coating

Style / Article no. : RW2432

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:

	Tests description	Conformity
	EN ISO 21420/EN 388	
1	Abrasion resistance : 2016	Level 3
2	Tear strength resistance: 2016	Level 4
3	Puncture resistance: 2016	Level 1
4	pH - Textile (KCl solution)	Pass
5	Dimethylformamide (DMF/DMFo/DMFa)	Pass
6	Polycyclic Aromatic Hydrocarbons (8)	Pass
7	Dexterity	Level 5
	Tests description	Conformity
8	Aromatic amines derived from azo colorants	Pass

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

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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.

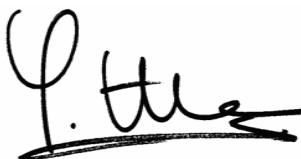


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Approved by



Henry YAN
Laboratory Manager



Yvonne MAO
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 PU palm white polyester back white/orange polyester/elastic cuff	



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3. GLOVE/

Whole glove

	Method	Client Requirement	Unit	Result	Conformity
▲ 4.2. Dimethylformamide (DMF/DMFo/DMFa) Dimethylformamide Dimethylformamide (2) Dimethylformamide - average	EN 16778: 2016		mg/kg	208.7	Pass
			mg/kg	168.8	
		<1000	mg/kg	188.8	
5.2. Dexterity Smallest diameter of pin fulfilling test condition Smallest diameter of pin fulfilling test condition (2) Smallest diameter of pin fulfilling test condition (3) Smallest diameter of pin fulfilling test condition (4) Performance level	EN ISO 21420: 2020		mm	5.0	
			mm	5.0	
			mm	5.0	
			mm	5.0	
				5	

white PU palm

	Method	Client Requirement	Unit	Result	Conformity
(+) 4.1. Abrasion resistance : 2016 Deviation from the test method 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			No Klingspor PL31B Grit 180 3M Scotch >8000 7600 6800 6000 3	
(+) 4.1. Tear strength resistance: 2016 Tear strength Tear strength (2) Tear strength (3)	EN 388:2016 + A1:2018		N	>75	
			N	>75	
			N	>75	

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	Method	Client Requirement	Unit	Result	Conformity
Tear strength (4)			N	>75	
Performance level				4	
(+) 4.1. Puncture resistance: 2016	EN 388:2016 + A1:2018				
Puncture resistance			N	26	
Puncture resistance (2)			N	35	
Puncture resistance (3)			N	42	
Puncture resistance (4)			N	43	
Performance level				1	
(+) 4.2. pH - Textile (KCl solution)	ISO 3071:2020				Pass
pH value		3.5< - <9.5		6.9	
▲ 4.2. Polycyclic Aromatic Hydrocarbons (8)	ISO/TS 16190: 2013				Pass
Benzo(a)anthracene		<1	mg/kg	<0.1	
Chrysene		<1	mg/kg	<0.1	
Benzo(b)fluoranthene		<1	mg/kg	<0.1	
Benzo(k)fluoranthene		<1	mg/kg	<0.1	
Benzo(a)pyrene		<1	mg/kg	<0.1	
Dibenzo(a,h)anthracene		<1	mg/kg	<0.1	
Benzo(e)pyrene		<1	mg/kg	<0.1	
Benzo(j)fluoranthene		<1	mg/kg	<0.1	

white polyester back

	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/orange polyester/elastic cuff

	Method	Client Requirement	Unit	Result	Conformity
(+) 4.2. pH - Textile (KCl solution)	ISO 3071:2020				Pass
pH value		3.5< - <9.5		6.8	

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	Method	Client Requirement	Unit	Result	Conformity
Aromatic amines derived from azo colorants	ISO 14362-1:2017 (combined extraction)				Pass
Accessible with fibre extraction		<30	mg/kg	<5	
Accessible without fibre extraction		<30	mg/kg	<5	

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
Abrasion Resistance (EN 388) Number of cycles (minimum)	<100	100	500	2000	8000	---
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

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