

# TEST REPORT

Report No.: D171017607\_1

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20 October 2017

**APPLICANT:** SUNNY BRYANT INDUSTRIAL LIMITED  
(C37844)

1603 B BUILDING, JINHUFENGJING,  
NO. 133 JINYUAN ROAD, JIANGCHENG  
DISTRICT  
YANGJIANG GUANGDONG  
CHINA

Date of receipt : 10 Oct. 2017  
Testing period : 12 Oct. 2017  
: 19 Oct. 2017

**Buyer:** —

**Sample description:** RED PALM, BACK, CUFF NATURAL RUBBER GLOVE

Style / Article no. : H2R-35  
Test(s) requested : PHYSICAL AND CHEMICAL TEST  
Service : REGULAR  
Brand / Section : —  
Season : —  
End use : —  
Factory name : —  
Factory code : —

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

## 1. Conclusion:

EN 420/EN 388/EN 374

The sizing of the gloves are 11 according to EN 420

	Tests description	Conformity
1	4.1. Abrasion resistance : 2016	Level 2
2	4.1. Cut resistance : 2016	Level 1
3	4.1. Puncture resistance: 2016	Level 0
4	4.1. Tear strength resistance: 2016	Level 1
5	4.3.2. pH - Textile (KCl solution)	Pass
6	5.1.2. Sizing	None
7	5.2. Dexterity	Level 4
8	5.2.1. Air Leak Test	Pass
9	5.2.1. Water Leak Test	Pass
10	Azo dyes - Textile	Pass
11	Dimethylfumarate	Pass
12	Polycyclic Aromatic Hydrocarbons	Pass
13	XRF screening	Pass

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

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Approved by



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Leo TOM KIT FAI  
Operational Manager

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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>
--	Gloves (26 pcs)	Whole glove	Red
		Whole glove	Palm
		Palm	Red rubber
		Whole glove	Red



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## 3. Gloves (26 pcs)/--

Whole glove : Red

	Method	Client Requirement	Unit	Result	Conformity
<b>▲ 5.1.2. Sizing</b>  Size Size (2) Total length of the glove Total length of the glove (2)	EN 420:2003+A1:2009			11 11 320 355	
<b>▲ 5.2. Dexterity</b>  Smallest diameter of the pin picked up Performance Level	EN 420:2003+A1:2009		mm mm	6.5 4	

Whole glove : Palm

	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			Klingspor PL31B Grit 180 3M Scotch 560 560 560 700 2	
<b>▲ 4.1. Cut resistance : 2016</b>  used consumables - canvas used consumables - blade C1 T1 1C1 I1 C2 T2 1C2 I2 C3	EN 388 : 2016			LEM 6 OLFA RB45 1.1 0.2 1.1 1.2 1.1 0.2 1.1 1.2 1.1	

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	Method	Client Requirement	Unit	Result	Conformity
T3				0.2	
1C3				1.1	
I3				1.2	
C4				1.1	
T4				0.2	
1C4				1.2	
I4				1.2	
C5				1.2	
T5				0.2	
1C5				1.2	
I5				1.2	
Mean value of test piece 1				1.2	
C1 bis				1.2	
T1 bis				0.2	
2C1bis				1.2	
I1 bis				1.2	
C2 bis				1.2	
T2 bis				0.3	
2C2bis				1.2	
I2 bis				1.3	
C3 bis				1.2	
T3 bis				0.3	
2C3bis				1.2	
I3 bis				1.3	
C4 bis				1.2	
T4 bis				0.2	
2C4bis				1.3	
I4 bis				1.2	
C5 bis				1.3	
T5 bis				0.3	
2C5bis				1.3	
I5 bis				1.2	
Mean value of test piece 2				1.2	
Considered value				1.2	
Performance level				1	
▲ 4.1. Tear strength resistance: 2016	EN 388 : 2016				
Tear strength			N	31	

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	Method	Client Requirement	Unit	Result	Conformity
Tear strength (2)			N	26	
Tear strength (3)			N	28	
Tear strength (4)			N	23	
Performance level				1	
<b>▲ 4.1. Puncture resistance: 2016</b>	EN 388 : 2016				
Puncture resistance			N	17	
Puncture resistance (2)			N	17	
Puncture resistance (3)			N	20	
Puncture resistance (4)			N	21	
Performance level				0	

Palm : Red rubber

	Method	Client Requirement	Unit	Result	Conformity
(+) <b>4.3.2. pH - Textile (KCl solution)</b>	EN ISO 3071:2006				Pass
pH value		3.5< - <9.5		6.5	
(+) <b>Azo dyes - Textile</b>	EN 14362-1 : 2012				Pass
Azo dyes		<30	mg/kg	<5	
(+) <b>Dimethylfumarate</b>	ISO/TS 16186 : 2012				Pass
Dimethylfumarate		<0.1	mg/kg	<0.1	
(+) <b>Polycyclic Aromatic Hydrocarbons</b>	ISO/TS 16190: 2013				Pass
Benzo(a)anthracene		<1	ppm	<0.1	
Chrysene		<1	ppm	<0.1	
Benzo(b)fluoranthene + Benzo(j)fluoranthene		<1	ppm	<0.2	
Benzo(k)fluoranthene		<1	ppm	<0.1	
Benzo(a)pyrene		<1	ppm	<0.1	
Dibenzo(a,h)anthracene		<1	ppm	<0.1	
Benzo(e)pyrene		<1	ppm	<0.1	
<b>XRF screening</b>	ASTM F 2617-15				Pass
Sn (Tin)		<150	ppm	<150	
Cd (Cadmium)		<100	ppm	<100	

Whole glove : Red

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	Method	Client Requirement	Unit	Result	Conformity
<b>▲ 5.2.1. Air Leak Test</b> Glove thickness Air pressure used to test Result	EN 374-2: 2014	Conform	mm kPa	0.8 7.5 Conform	Pass
<b>▲ 5.2.1. Water Leak Test</b> Result	EN 374-2: 2014	Conform		Conform	Pass

## END OF TEST REPORT

(+)CNAS accreditation

▲ The test was carried out by external laboratory assessed as competent.

Table of Performance Level for Glove

Test Item	Performance Level					
	0 <sup>##</sup>	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>Dexterity (EN 420)</b> Diameter of pin (in 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