

TEST REPORT

Report No.: S170404924_1

27 April 2017

APPLICANT: HANGZHOU DONGDI IMP&EXP. CO., LTD
(C00877)

NO. 22 CHANG CHENG STREET.
HANGZHOU, 310022, CHINA

Date of receipt : 17 Apr. 2017

Testing period : 19 Apr. 2017

: 27 Apr. 2017

Buyer: ---

Sample description: Green nitrile/Green NBR glove

Style / Article no. : DHL445
Test(s) requested : ---
Service : REGULAR
Brand / Section : ---
Season : ---
End use : Gloves
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>
1	Abrasion resistance : 2016 : EN 388 : 2016	Level 4
2	Air Leak Test : EN 374-2	None
3	Azo dyes - Textile : EN 14362-1	Pass
4	Cut resistance : 2016 : EN 388 : 2016	Level 1
5	Dexterity : EN 420	Level 5
6	Dimethylfumarate : ISO/TS 16186	Pass
7	pH - Textile (KCl solution) : EN ISO 3071	Pass
8	Polycyclic Aromatic Hydrocarbons : ISO/TS 16190	Pass
9	Puncture resistance: 2016 : EN 388 : 2016	Level 1
10	Sizing : EN 420	None
11	Tear strength resistance: 2016 : EN 388 : 2016	Level 0
12	Water Leak Test : EN 374-2	None
13	XRF screening : ASTM F 2617	Pass

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

TEST REPORT

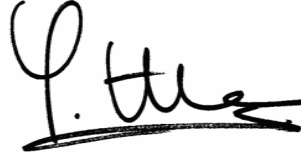
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Approved by



Henry YAN
Laboratory Supervisor

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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 green nitrile palm	



170404924

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3. GLOVE/

whole glove

	Method	Client Requirement	Unit	Result	Conformity
▲ Air Leak Test	EN 374-2: 2014				
Glove thickness			mm	0.5	
Air pressure used to test			kPa	4.5	
Result				Conform	
▲ Water Leak Test	EN 374-2: 2014				
Result				Conform	
(+) Sizing	EN 420:2003+A1:2009				
Size				17	
Total length of the glove			mm	332	
(+) Dexterity	EN 420:2003+A1:2009				
Smallest diameter of the pin picked up			mm	5.0	
Performance Level				Level 5	

green nitrile palm

	Method	Client Requirement	Unit	Result	Conformity
▲ Azo dyes - Textile	EN 14362-1 : 2012				Pass
Azo dyes		<30	mg/kg	<5	
Tear strength resistance: 2016	EN 388 : 2016				
Tear strength			N	3	
Tear strength (2)			N	3	
Tear strength (3)			N	5	
Tear strength (4)			N	3	
Performance level				0	
Puncture resistance: 2016	EN 388 : 2016				
Puncture resistance			N	34	
Puncture resistance (2)			N	37	
Puncture resistance (3)			N	43	
Puncture resistance (4)			N	44	
Performance level				1	
▲ Dimethylfumarate	ISO/TS 16186 : 2012				Pass

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	Method	Client Requirement	Unit	Result	Conformity
Dimethylfumarate		<0.1	mg/kg	<0.1	
▲ pH - Textile (KCl solution)	EN ISO 3071:2006				Pass
pH value		3.5< - <9.5		7.7	
▲ XRF screening	ASTM F 2617-15				Pass
Sn (Tin)		<150	ppm	<150	
Cd (Cadmium)		<100	ppm	<100	
▲ Polycyclic Aromatic Hydrocarbons	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	
Cut resistance : 2016	EN 388 : 2016				
Deviation from the test method				NO	
Used consumables - Canvas				LEM 6	
Used consumables - Blade				OLFA RB45	
C1				1.0	
T1				0.3	
1C1				1.2	
I1				1.3	
C2				1.2	
T2				0.4	
1C2				1.2	
I2				1.3	
C3				1.2	
T3				0.3	
1C3				1.2	
I3				1.3	
C4				1.2	
T4				0.3	
1C4				1.2	
I4				1.3	
C5				1.2	

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	Method	Client Requirement	Unit	Result	Conformity
T5				0.3	
1C5				1.2	
I5				1.3	
Mean value of test piece 1				1.3	
C1 bis				1.2	
T1 bis				0.3	
2C1bis				1.1	
I1 bis				1.3	
C2 bis				1.1	
T2 bis				0.2	
2C2bis				1.0	
I2 bis				1.2	
C3 bis				1.0	
T3 bis				0.3	
2C3bis				1.1	
I3 bis				1.3	
C4 bis				1.1	
T4 bis				0.4	
2C4bis				1.1	
I4 bis				1.4	
C5 bis				1.1	
T5 bis				0.3	
2C5bis				1.1	
I5 bis				1.3	
Mean value of test piece 2				1.3	
Considered value				1.3	
Performance level				1	
Observation				No comment	
Abrasion resistance : 2016	EN 388 : 2016				
Deviation from the test method				NO	
used consumables - abrasive				Klingspor PL31B Grit 180	
used consumables - adhesive				3M	
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	

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	Method	Client Requirement	Unit	Result	Conformity
Performance level				4	

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 ^{##}	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
Tear Resistance (EN 388) Force (N) (minimum)	<10	10	25	50	75	---
Puncture Resistance (EN 388) Force (N) (minimum)	<20	20	60	100	150	---
Dexterity (EN 420) 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

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