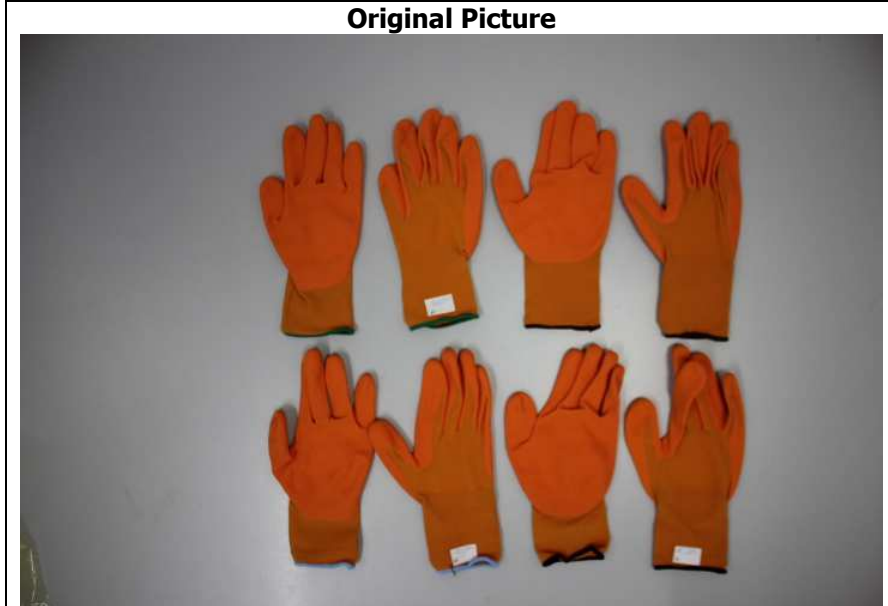


NUMBER : TSNT01257775S01

Original Picture



Intertek Testing Services (Tianjin) Ltd.

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NUMBER : TSNT01257775S01

Date : Dec 11, 2019
This Is To Supersede Report
TSNT01257775 Dated Dec 10,
2019

Sample Description:

Several Pairs Of Submitted Sample Said To Be 15G Hi-Vis Orange Nylon+Spandex Linner With Orange Nitrile Sandy Palm Coated Gloves, Marked As (8#) Green Binding, (9#) Brown Binding, (10#) Blue Binding, (11#) Black Binding.

Eco Test Component:

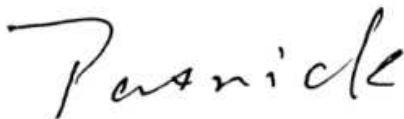
- (1) Orange Nitrile Plam Fabric Of Sample
- (2) Orange Nylon+Spandex Back Fabric Of Sample
- (3) Orange Nylon+Spandex With Rubber Cuff Fabric Of Sample
- (4) Black Polyester Binding Of Sample

Standard : BS EN 420: 2003+A1: 2009
BS EN 388: 2016+A1: 2018
Colour : Orange
Size Range : -
Palm Material : -
Back Material : -
Cuff Material : -
Cuff Binding Material : -
Lining Material : -
Order No. : -
Style No. : 8802LC
Manufacturer's Name : -

Applicant's Provided Care Instruction/Label : -

Date Received/Date Test Started : Dec 04, 2019

Authorized By :
For Intertek Testing Services
(Tianjin) Ltd.



Patrick Gong
General Manager



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Tests Conducted:

1. pH Value

As Per BS EN 420:2003+A1:2009,4.3.2, With Reference To BS EN ISO 3071:2006 For Textile, KCl Solution Was Used For Extraction, pH Value Was Measured By pH Meter.

<u>Tested Component</u>	<u>Result</u>	<u>Requirement</u>
(1)	8.0	*
(2)	7.4	*
(3)	7.0	*
(4)	7.0	*

Temperature Of The Extracting Solution: 21.0 °C

pH Of The Extracting Solution: 5.5

Remark: * = The pH Value Shall Be Greater Than 3.5 And Less Than 9.5. And For Method EN ISO 4045:2008 The Difference Figure Do Not Need To Test.

Conclusion:

<u>Tested Components</u>	<u>Test Item/Standard</u>	<u>Result</u>
(1)(2)(3)&(4)	BS EN 420:2003+A1:2009 For pH Value	Pass

2. Design And Construction (BS EN 420: 2003+A1: 2009, 4.1):

<u>Requirement</u>	<u>Pass/Fail</u>
Comply With Requirement	Pass

Remark: * = The Protective Glove Shall Be Designed And Manufactured So That In The Foreseeable Conditions Of Use For Which It Is Intended, The User Can Perform The Hazard Related Activity Normally Whilst Enjoying Appropriate Protection At The Highest Possible Level. If Required, The Glove Shall Be Designed To Minimize The Time Needed For Putting On And Taking Off. When The Glove Construction Includes Seams, The Material And Strength Of The Seams Shall Be Such That The Overall Performance Of The Glove Is Not Significantly Decreased.

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Tests Conducted:

3. Sizing (BS EN 420: 2003+A1: 2009, 6.1):

		<u>Requirement</u>	<u>Pass/Fail</u>
Size	8#		
Glove Length:	255 mm	*	Pass
Corresponding Size (By Extrapolation):	9(#)		
Size	9#		
Glove Length:	260 mm	*	Pass
Corresponding Size (By Extrapolation):	10(#)		
Size	10#		
Glove Length:	260 mm	*	Pass
Corresponding Size (By Extrapolation):	10(#)		
Size	11#		
Glove Length:	271 mm	*	Pass
Corresponding Size (By Extrapolation):	11(#)		

Remark:

= The Size Is Derived By Extrapolation Of The Data In Below Table In Accordance With BS EN 420:2003, 5.1.

*= Sizes Of Gloves

Glove Size	Fit	
6	Hands Size 6	Min. 220 mm
7	Hands Size 7	Min. 230 mm
8	Hands Size 8	Min. 240 mm
9	Hands Size 9	Min. 250 mm
10	Hands Size 10	Min. 260 mm
11	Hands Size 11	Min. 270 mm

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Tests Conducted:

4. Finger Dexterity Test (BS EN 420:2003+A1: 2009, 6.2):

	<u>The Smallest Diameter Of Pin Picked Up</u>
Specimen 1(Left Hand):	5 mm
Specimen 2(Right Hand):	5 mm
Specimen 3(Left Hand):	5 mm
Specimen 4(Right Hand):	5 mm
Performance Level:	5(*)

Remark: * = The Classification Is Determined By The Smallest Diameter Of Pin Picked Up Of The Four Test Specimens.

Remark:

Performance Level	The Smallest Diameter Of Pin Shall Be Picked Up
Level 1	11 mm
Level 2	9.5 mm
Level 3	8 mm
Level 4	6.5 mm
Level 5	5 mm

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Tests Conducted:

5. Abrasion Resistance (BS EN 388: 2016, 6.1, 9 kPa):

Adhesion Contact Time Of Test Specimen With The Double-Sided Adhesive Tape Under A Weight Of A Approximatley 10 Kg	At Least 5 Min
Surface Treatment Of Test Specimen In Order To Improve Adhesion	No Surface Treatment
Abradant	The Klingspor PL 31 B-Grit 180 Grain Aluminium Oxide
Double-Sided Adhesive Tape	3M™ Double-Sided Adhesive Tape

Observation	Specimen 1	Specimen 2	Specimen 3	Specimen 4
After 100 Cycles:	O	O	O	O
After 500 Cycles:	O	O	O	O
After 2 000 Cycles:	O	O	O	O
After 8 000 Cycles:	O	O	O	O
Performance Level :	4			

Remark:

The Minimum Requirements For Each Level:

Level 1: 100 Cycles

Level 2: 500 Cycles

Level 3: 2 000 Cycles

Level 4: 8 000 Cycles

Level 5: -

O = No Breakthrough

X = Breakthrough

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Tests Conducted :

6. Blade Cut Resistance (BS EN 388:2016, 6.2):

	<u>Specimen 1 (Index)</u>	<u>Specimen 2 (Index)</u>
	I ₁ :1.4	I ₆ :1.5
	I ₂ :1.5	I ₇ :1.6
	I ₃ :1.6	I ₈ :1.5
	I ₄ :1.7	I ₉ :1.5
	I ₅ :1.7	I ₁₀ :1.5
	Average Index:1.6	Average Index:1.5
The Lowest Average Index:		1.5
Performance Level :		1(*)

Remark:

The Minimum Requirements For Each Level:

Level 1: 1.2

Level 2: 2.5

Level 3: 5.0

Level 4: 10.0

Level 5: 20.0

* = The Performance Level Is Defined As The Lowest Average Index Values Of Two Test Specimens From The Different Gloves.

7. Resistance To Cutting By Sharp Objects (BS EN 388:2016, 6.3 & EN ISO 13997:1999):

Test Condition:	Temperature (23±2) °C; Relative Humidity (50±5)%
Test Area:	Glove Palm
Blade Sharpness Correction Factor:	-
Normalized Cutting Stroke Length:	-

Result:

Cutting Force (*): #1

Performance Level (#) : -

Remark: * = Calculated Force That Would Be Required To Be Applied To A Blade Of Standard Sharpness To Just Cut Through A Material In A Blade Stroke Of Length 20 mm.

= Levels Of Performance For Materials Tested With EN ISO 13997

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

Note: #1 = In Blade Cut Resistance Test, Test Specimens Did Not Dull The Blade To Specified Degree. There Is No Need To Be Performed The EN ISO 13997:1999 Cut Resistance Method.

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Tests Conducted :

8. Tear Resistance (BS EN 388: 2016, 6.4):

Specimen 1:	56 N
Specimen 2:	50 N
Specimen 3:	69 N
Specimen 4:	50 N
Performance Level:	3(*)

Remark:

The Minimum Requirements For Each Level:

Level 1:	10 N
Level 2:	25 N
Level 3:	50 N
Level 4:	75 N
Level 5:	-

* = The Classification Is Determined By Taking The Lowest Of The Four Values.

9. Puncture Resistance (BS EN 388: 2016, 6.5):

Specimen 1:	36 N
Specimen 2:	31 N
Specimen 3:	33 N
Specimen 4:	37 N
Performance Level :	1(*)

Remark:

Level 1:	20 N
Level 2:	60 N
Level 3:	100 N
Level 4:	150 N
Level 5:	-

Remark: * = The Classification Is Determined By The Lowest Value Of The Four Test Specimens.

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Tests Conducted:

10. Detection Of Amines Derived From Azocolourants and Azodyes:

With Reference To Test Method: Textile Method (EN 14362-1: 2012);

Amines Content Was Determined By Gas Chromatography-Mass Spectrometry (GC-MS)

	<u>Forbidden Amine</u>	<u>CAS No.</u>	<u>Result (mg/kg)</u>			
			(1)	(2)	(3)	(4)
1.	4-Aminodiphenyl	92-67-1	ND	ND	ND	ND
2.	Benzidine	92-87-5	ND	ND	ND	ND
3.	4-Chloro-o-toluidine	95-69-2	ND	ND	ND	ND
4.	2-Naphthylamine	91-59-8	ND	ND	ND	ND
5.	o-Aminoazotoluene	97-56-3	ND	ND	ND	ND
6.	2-Amino-4-nitrotoluene	99-55-8	ND	ND	ND	ND
7.	p-Chloroaniline	106-47-8	ND	ND	ND	ND
8.	2,4-Diaminoanisole	615-05-4	ND	ND	ND	ND
9.	4,4'-Diaminodiphenylmethane	101-77-9	ND	ND	ND	ND
10.	3,3'-Dichlorobenzidine	91-94-1	ND	ND	ND	ND
11.	3,3'-Dimethoxybenzidine	119-90-4	ND	ND	ND	ND
12.	3,3'-Dimethylbenzidine	119-93-7	ND	ND	ND	ND
13.	3,3'-Dimethyl- 4,4'diaminodiphenylmethane	838-88-0	ND	ND	ND	ND
14.	p-Cresidine	120-71-8	ND	ND	ND	ND
15.	4,4'-Methylene-bis(2-chloroaniline)	101-14-4	ND	ND	ND	ND
16.	4,4'-Oxydianiline	101-80-4	ND	ND	ND	ND
17.	4,4'-Thiodianiline	139-65-1	ND	ND	ND	ND
18.	o-Toluidine	95-53-4	ND	ND	ND	ND
19.	2,4-Toluylenediamine	95-80-7	ND	ND	ND	ND
20.	2,4,5-Trimethylaniline	137-17-7	ND	ND	ND	ND
21.	o-Anisidine	90-04-0	ND	ND	ND	ND
22.	4-Aminoazobenzene	60-09-3	ND	ND	ND	ND

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Tests Conducted:

Detection Of Amines Derived From Azocolourants and Azodyes(Cont'd)

Remark: ND = Not detected
Detection limit = 5 mg/kg
Limit = 30 mg/kg

Conclusion:

<u>Tested Components</u>	<u>Test Item/Standard</u>	<u>Result</u>
(1)(2)(3)&(4)	Azocolourants Content Requirement In Annex XVII Item 43 Of The REACH Regulation (EC) NO. 1907/2006 & Amendment No. 552/2009 and 126/2013 (Formerly Known As Directive 2002/61/EC)	Pass

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NUMBER : TSNT01257775S01

Date: Dec 11, 2019

Re : Report Revision Notification

Report Number TSNT01257775 Dated Dec 10, 2019

Please Be Informed That All The Content Recorded In The Above
Captioned Report Will Be Void. This Captioned Report Is Now Supersede By A Revised Report, Number
TSNT01257775S01, Issued On Dec 11, 2019

Please Return The Original Captioned Report To Us Immediately.

Thank You For Your Attention.

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