

NUMBER : TSNT01174169

Original Picture



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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/Deionized Water Was Used For Extraction, pH Value Was Measured By pH Meter.

<u>Tested Sample/Component</u>	<u>Result</u>	<u>Requirement</u>
(1)	6.5	*
(2)	7.1	*
(3)	6.8	*
(4)	6.7	*
(5)	7.0	*
(6)	6.8	*
(7)	6.8	*
(8)	7.0	*
(9)	7.1	*
(10)	6.8	*

Temperature Of The Extracting Solution: 20.6 °C

pH Of The Extracting Solution: 5.9

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)(5)(6)(7)(8)(9) &(10)	BS EN 420:2003+A1:2009 For pH Value	Pass

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Tests Conducted:

Sizing(Cont'd)

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

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

Sample (A)

The Smallest Diameter Of Pin Picked Up

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):

Sample (A)

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
<u>After 100 Cycles:</u>	O	O	O	O
<u>After 500 Cycles:</u>	O	O	O	O
<u>After 2 000 Cycles:</u>	O	O	O	O
<u>After 8 000 Cycles:</u>	X	X	X	X

Performance Level :

3

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):

Sample (A)

Specimen 1 (Index)	Specimen 2 (Index)
I ₁ :1.5	I ₆ :1.3
I ₂ :1.6	I ₇ :1.5
I ₃ :1.5	I ₈ :1.4
I ₄ :1.6	I ₉ :1.5
I ₅ :1.6	I ₁₀ :1.4
Average Index:1.5	Average Index:1.4

The Lowest Average Index:
Performance Level :

1.4
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):

Sample (A)

Test Condition: Temperature (20±2) °C; Relative Humidity (65±4)%
 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):

Sample (A)

Specimen 1:	91 N
Specimen 2:	82 N
Specimen 3:	71 N
Specimen 4:	73 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):

Sample (A)

Specimen 1:	48 N
Specimen 2:	52 N
Specimen 3:	50 N
Specimen 4:	59 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) And High Performance Liquid Chromatography (HPLC)

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