



CTC Shanghai
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TEST REPORT

Report No.: SH60530-14



TESTING
CNAS L4577

April 1, 2014

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APPLICANT:

VICSA SAFETY COMERCIAL LIMITADA

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Test(s) requested : -- Product Category : -- Product Type : --
Sample description: GUANTE MULTIFLEX CUT-5 LATEX
Style / Article no.: 301000780568/301000780569 Buyer: CHILE
Ref no.: GUANTE MULTIFLEX CUT-5 Exported to: CHILE
Date of receipt of application form: March 26, 2014
Date of receipt of sample: March 26, 2014
Testing period: March 26, 2014 -- April 1, 2014
Order no.: --
End use: --
Number of sample(s) SEVERAL PAIRS OF SAMPLES Service required: REGULAR

1. Conclusion:

Testing	Result	Combine / Separate Test Item(s)	Failed Test Item(s)
Dexterity of glove	Level 5	(S01)	--
Sizing of glove	7, 8, 9, 10	(S01)(S05)(S06)(S07)(S08)(S09)(S10)(S11)	--
Abrasion resistance	Level 4	(S02)	--
Blade cut resistance of glove	Level 5	(S02)	--
Tear resistance of glove	Level 4	(S02)	--
Puncture resistance of glove	Level 4	(S02)	--
Azo dyes	P P P	(S02)(S03)(S04)	--
pH value	P P P	(S02)(S03)(S04)	--
Dimethyl Fumarate Content	P	(S02)	--
Tin detection	P	(S02)	--
Cadmium detection	P	(S02)	--

This test is not covered by CNAS accreditation.

Note: P: Pass F: Fail

Comments:

For the submitted samples, the Dexterity got level 5; the sizes of gloves are 7, 8, 9, 10 and the pH value tests passed the requirement according to EN420 standard.

The Abrasion resistance of glove got level 4; the Blade cut resistance of glove got level 5; the Tear resistance of glove got level 4; the Puncture resistance of glove got level 4 according to EN388 standard.

All the other tests passed the requirements.

Approved by

Original Signed

Henry YAN
Lab Manager

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2. Label(s) on the sample(s):

Sample(s)	Size	Style / Article no.:	Sub-sample(s)	Component(s)	Colour
(01)	--	301000780568/ 301000780569	(a)	Glove	Black/White
			(b)	Palm	Black
			(c)	Back	Black/White
			(d)	Cuff	Black/White
(02)	--	301000780568/ 301000780569	(a)	Glove	Black/White
(03)	--	301000780568/ 301000780569	(a)	Glove	Black/White
(04)	--	301000780568/ 301000780569	(a)	Glove	Black/White
(05)	--	301000780568/ 301000780569	(a)	Glove	Black/White
(06)	--	301000780568/ 301000780569	(a)	Glove	Black/White
(07)	--	301000780568/ 301000780569	(a)	Glove	Black/White
(08)	--	301000780568/ 301000780569	(a)	Glove	Black/White

3. Sample(s) description assigned by laboratory:

Test item	Sample(s)	Combine / Separate sub-sample(s)
(S01)	(01)	(a)
(S02)	(01)	(b)
(S03)	(01)	(c)
(S04)	(01)	(d)
(S05)	(02)	(a)
(S06)	(03)	(a)
(S07)	(04)	(a)
(S08)	(05)	(a)
(S09)	(06)	(a)
(S10)	(07)	(a)
(S11)	(08)	(a)



4. Testing result:

4.1 EN 420

TEST METHOD		Test item(s)	Requirement	P/F
		(S01)		
1	Dexterity of glove[#] (EN 420:2003 §6.2+A1:2009) Highest value of four tests : Performance Level :	5.0 5	--- ---	---

Note: P: Pass F: Fail

TEST METHOD		Test item(s)		Requirement	P/F
		Total length (mm)	Glove Size		
2	Sizing of glove* (EN 420:2003 §6.1+A1:2009) S01 S05	231 232	7	--	--

Note: P: Pass F: Fail

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TEST METHOD		Test item(s)		Requirement	P/F
3	Sizing of glove* (EN 420:2003 §6.1+A1:2009) S06 S07	Total length (mm) 248 249	Glove Size 8	--	--

TEST METHOD		Test item(s)		Requirement	P/F
4	Sizing of glove* (EN 420:2003 §6.1+A1:2009) S08 S09	Total length (mm) 251 253	Glove Size 9	--	--

TEST METHOD		Test item(s)		Requirement	P/F
5	Sizing of glove* (EN 420:2003 §6.1+A1:2009) S10 S11	Total length (mm) 268 261	Glove Size 10	--	--

*Remark: Only two samples were measured for each sizing.

4.2 EN 388

EN 388

TEST METHOD		Test item(s)		Requirement	P/F
		(S02)			
1	Blade cut resistance of glove * (EN 388:2003 §6.2) Sequence 1 2 3 Average (I): Lowest average value (I) : Performance Level :	Index (I)		---	---
		Test 1	Test 2		
		123.4	160.1		
		117.7	206.5		
		133.2	216.6		
		124.8	194.4		
124.8		---	---		
5					
2	Tear resistance of glove * (EN 388:2003 §6.3) Lowest value of four tests (N): Performance Level :	>75 4		---	---
3	Puncture resistance of glove * (EN 388:2003 §6.4) Lowest value of four tests (N): Performance Level :	168 4		---	---
4	Abrasion resistance of glove * (EN 388:2003 §6.1) Lowest value of four tests : Performance Level :	8000 4		---	---

Refer to the below page for details of the performance level of glove.

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Table of Performance Level for Glove

Test Item	Performance Level					
	0 ^{##}	1	2	3	4	5
Abrasion Resistance (EN 388:2003 §6.1) Number of cycles (minimum)	< 100	100	500	2000	8000	---
Blade Cut Resistance (EN 388:2003 §6.2) Index (I) (minimum)	< 1.2	1.2	2.5	5.0	10.0	20.0
Tear Resistance (EN 388:2003 §6.3) Force (N) (minimum)	< 10	10	25	50	75	---
Puncture Resistance (EN 388:2003 §6.4) Force (N) (minimum)	< 20	20	60	100	150	---
Dexterity (EN 420:2003 §6.2+A2:2009) 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.

4.3 Azo dyes

TEST METHOD		Test Items	Client Requirement	P/F
		(S02)		
1	Azo dyes* (mg/kg) (EN 14362-1:2012)	<5	≤30	P

TEST METHOD		Test Items	Client Requirement	P/F
		(S03)		
2	Azo dyes* (mg/kg) (EN 14362-1:2012)	<5	≤30	P

TEST METHOD		Test Items	Client Requirement	P/F
		(S04)		
3	Azo dyes* (mg/kg) (EN 14362-1:2012)	<5	≤30	P

Note: P: Pass F: Fail

*Test method according to EN 14362-1:2012 or EN ISO 17234-1:2010 or EN 14362-3:2012 or EN ISO 17234-2:2011. Removal of fat by n-hexane (in case of leather), treatment with citric buffer, reductive cleavage with sodium dithionite, extraction with ether, detection by GC/MS and/or HPLC/DAD. (Detection limit: 5 mg/kg)

List of aromatic amines

(Detection limit: 5mg/kg)

Benzidine	3,3'-Dimethoxybenzidine	O-Anisidine
4-Aminobiphenyle	3,3'-Dimethylbenzidine	4-Aminoazobenzene
4-Chloro-O-Toluidine	4,4'-Methylenedi-o-Toluidine	2,4 Xylidine
2-Naphthylamine	P-Cresidine	2,6 Xylidine
O-Aminoazotoluene	4,4'-Methylene-BIS-(2-Chloroaniline)	
5-Nitro-O-Toluidine	4,4'-Oxydianiline	
4-Chloroaniline	4,4'-Thiodianiline	
4-Methoxy-M-Phenylenediamine	O-Toluidine	
4,4'-Diaminodiphenylmethane	2,4,5-Trimethylaniline	
3,3'-Dichlorobenzidine	4-Methyl-M-Phenylenediamine	

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Interpretation of test results:

- (1) In the case of levels per amine component ≤ 30 mg/kg: Not detected. According to the analysis as carried out, azo colourants banned under the ordinance on commodities were not detected in the article submitted.
- (2) In the case of levels per amine component > 30 mg/kg: The analysis result suggests that the article submitted has been manufactured or treated by using azo colourants banned under the ordinance on commodities.
- (3) In case of a result between 25 and 35 mg/kg: We remark that due to the error range of the method, these measurement values represent a border line case.
- (4) For determination of 4-Aminoazobenzene, EN 14362-3:2012 or EN ISO 17234-2:2011 will be performed on the sample.

4.4 pH value

According to EN ISO 3071:2006

TEST METHOD	Test Items			Client's Requirement	P/F
	(S02)	(S03)	(S04)		
pH value Average value(nearest to 0.1)	7.2	7.4	7.5	> 3.5 & < 9.5	PPP

Note: P: Pass F: Fail

4.5 Dimethyl Fumarate Content:

TEST METHOD		Test Items	Requirement	P/F
		(S02)		
1	Dimethyl Fumarate Content (CAS: 624-49-7) (ISO/TS 16186: 2012) Detection Limit: ≈ 0.1 mg/kg	< 0.1	< 0.1	P

Note: P: Pass F: Fail

Remark:

Laboratory Reporting Limit = 0.1 mg/kg

Mg/kg = milligram per kilogram

ND = Not detected

Method: Sample was extracted with organic solvent and analyzed by Gas Chromatograph Mass Spectrometer.

4.6 Tin Detection:

TEST METHOD		Test Items	Requirement	P/F
		(S02)		
	Tin XRF Screening (With reference to ASTM F 2617-08) Metal Content in (mg/kg or ppm)	< 350	< 350	P

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4.7 Cadmium Detection:

TEST METHOD	Test Items	Requirement	P/F
	(S02)		
Cadmium XRF Screening (With reference to ASTM F 2617-08) Metal Content in (mg/kg or ppm)	<100	<100	P

Note: P: Pass F: Fail

- End of report -

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