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TEST REPORT



TESTING
CNAS L4577

Report No.: SH60532-14

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 POLYESTER NITRILO FOAM NON-BREATHABLE (13G Black
POLYESTER liner, Grey foam nitrile Palm coating)
Style / Article no.: 301000780094/ 301000780095/ **Buyer:** CHILE
301000780096/ 301000780097/
Ref no.: GUANTE MULTIFLEX NYLON **Exported to:** CHILE
LATEX **Date of receipt of application form:** MARCH 26, 2014
Order no.: -- **Date of receipt of sample:** MARCH 26, 2014
End use: -- **Testing period:** MARCH 26, 2014--
MARCH 31, 2014
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	6, 7, 8 9, 10	(S01)(S05)(S06)(S07)(S08) (S09)(S10)(S11)(S12)(S13)	--
Abrasion resistance of glove	Level 4	(S02)	
Blade cut resistance of glove	Level 1	(S02)	--
Tear resistance of glove	Level 2	(S02)	--
Puncture resistance of glove	Level 1	(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 #6, #7, #8, #9, #10
The pH value tests passed the requirement according to EN420 standard.
The Abrasion resistance of glove got level 4; Blade cut resistance of glove got level 1; the Tear resistance of glove got level 2; the Puncture resistance of glove got level 1 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	Ref no.:	Sub-sample(s)	Component(s)	Colour
(01)	--	GUANTE MULTIFLEX NYLON LATEX	(a) (b) (c) (d)	Glove Palm Back Cuff	Grey/ Black Grey Black Black
(02)	--	GUANTE MULTIFLEX NYLON LATEX	(a)	Glove	Grey/ Black
(03)	--	GUANTE MULTIFLEX NYLON LATEX	(a)	Glove	Grey/ Black
(04)	--	GUANTE MULTIFLEX NYLON LATEX	(a)	Glove	Grey/ Black
(05)	--	GUANTE MULTIFLEX NYLON LATEX	(a)	Glove	Grey/ Black
(06)	--	GUANTE MULTIFLEX NYLON LATEX	(a)	Glove	Grey/ Black
(07)	--	GUANTE MULTIFLEX NYLON LATEX	(a)	Glove	Grey/ Black
(08)	--	GUANTE MULTIFLEX NYLON LATEX	(a)	Glove	Grey/ Black
(09)	--	GUANTE MULTIFLEX NYLON LATEX	(a)	Glove	Grey/ Black
(10)	--	GUANTE MULTIFLEX NYLON LATEX	(a)	Glove	Grey/ Black

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)
(S12)	(09)	(a)
(S13)	(10)	(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	--- ---	---

TEST METHOD		Test item(s)		Requirement	P/F
2	Sizing of glove* (EN 420:2003 §6.1+A1:2009) S01 S05	Total length (mm) 225 229	Glove Size 6	-	-

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) 238 239	Glove Size 7	-	-

TEST METHOD		Test item(s)		Requirement	P/F
4	Sizing of glove* (EN 420:2003 §6.1+A1:2009) S08 S09	Total length (mm) 248 251	Glove Size 8	-	-

TEST METHOD		Test item(s)		Requirement	P/F
5	Sizing of glove* (EN 420:2003 §6.1+A1:2009) S10 S11	Total length (mm) 251 252	Glove Size 9	-	-

TEST METHOD		Test item(s)		Requirement	P/F
6	Sizing of glove* (EN 420:2003 §6.1+A1:2009) S12 S13	Total length (mm) 260 261	Glove Size 10	-	-

Note: P: Pass F: Fail

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

4.2 EN 388

TEST METHOD		Test item(s)		Requirement	P/F
		(S02)			
1	Blade cut resistance of glove # (EN 388:2003 §6.2) Sequence	Index (I)		---	---
		Test 1	Test 2		
		1	1.4		
		2	1.5		
		3	1.3		
		4	1.8		
		5	1.4		
Average (I):		1.4	1.5		
Lowest average value (I) :		1.4			
Performance Level :		1			

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

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2	Tear resistance of glove # (EN 388:2003 §6.3) Lowest value of four tests (N): Performance Level :	43 2	---	---
3	Puncture resistance of glove # (EN 388:2003 §6.4) Lowest value of four tests (N): Performance Level :	36 1	---	---
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.

Note: P: Pass F: Fail

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+A1:2009) 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 (S02)	Client Requirement	P/F	
				1

TEST METHOD	Test Items (S03)	Client Requirement	P/F	
				2

TEST METHOD	Test Items (S04)	Client Requirement	P/F	
				3

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*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	

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)	7.0	9.0	9.0	>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: =0.1mg/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.

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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

Note: P: Pass F: Fail

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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