



CTC Shanghai
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TEST REPORT



TESTING
CNAS L4577

November 24, 2014

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Report No.: SH62442R2-14
(This test report supersedes the report SH62442R1-14
issued on November 12, 2014)

APPLICANT:

Vicsa Steelpro Colombia S.A.S.

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Test(s) requested : -- Product Category : -- Product Type : --
Sample description: Multiflex Nylon Nitrilo Foam Black
Style / Article no.: 301000790614 301000790615 Buyer: COLOMBIA
301000790616
Ref no.: Multiflex Nylon Nitrilo Foam Black Exported to: COLOMBIA
Date of receipt of application form: October 24, 2014
Date of receipt of sample: October 24, 2014
Testing period: October 24, 2014--
October 31, 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 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 expect size of gloves 7, 8, 9, 10 passed the requirement and 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	Style / Article no.:	Sub-sample(s)	Component(s)	Colour
(01)	--	301000790614 301000790615 301000790616	(a)	Glove	Black/Yellow
			(b)	Palm	Black
			(c)	Back	Black
			(d)	Cuff	Black
(02)	--	301000790614 301000790615 301000790616	(a)	Glove	Black/Yellow
(03)	--	301000790614 301000790615 301000790616	(a)	Glove	Black/Green
(04)	--	301000790614 301000790615 301000790616	(a)	Glove	Black/Green
(05)	--	301000790614 301000790615 301000790616	(a)	Glove	Black/Blue
(06)	--	301000790614 301000790615 301000790616	(a)	Glove	Black/Blue
(07)	--	301000790614 301000790615 301000790616	(a)	Glove	Black/Brown
(08)	--	301000790614 301000790615 301000790616	(a)	Glove	Black/Brown

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)



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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	236 236	7	7	P

Note: P: Pass F: Fail

TEST METHOD		Test item(s)		Requirement	P/F
		Total length (mm)	Glove Size		
3	Sizing of glove* (EN 420:2003 §6.1+A1:2009) S06 S07	241 244	8	8	P

Note: P: Pass F: Fail

TEST METHOD		Test item(s)		Requirement	P/F
		Total length (mm)	Glove Size		
4	Sizing of glove* (EN 420:2003 §6.1+A1:2009) S08 S09	254 252	9	9	P

Note: P: Pass F: Fail

TEST METHOD		Test item(s)		Requirement	P/F
		Total length (mm)	Glove Size		
5	Sizing of glove* (EN 420:2003 §6.1+A1:2009) S10 S11	264 266	10	10	P

Note: P: Pass F: Fail

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

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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	1.6		
		2	1.8		
		3	1.7		
		4	1.8		
		5	1.7		
		Average (I):	1.7		
Lowest average value (I) :		1.7	---	---	
Performance Level :		1	---		
2	Tear resistance of glove # (EN 388:2003 §6.3) Lowest value of four tests (N): Performance Level :	31		---	---
		2		---	
3	Puncture resistance of glove # (EN 388:2003 §6.4) Lowest value of four tests (N): Performance Level :	30		---	---
		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.

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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.

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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