

TEST REPORT

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Report No.: S230100239_1

16 January 2023

APPLICANT: GARMENDIA MACUS SA (C51960)

CARLOS FERNANDEZ 255
SAN JOAQUIN
SANTIAGO -CHILE
.
CHILE

Date of receipt : 11 Jan. 2023
Testing period : 12 Jan. 2023
: 16 Jan. 2023

nicoleworkglove@163.com

Buyer: —

Sample description: 13 gauge polyester liner, nitrile coated gloves

Reference no. : GS-012
Style / Article no. : GS-012
Test(s) requested : —
Service : REGULAR
Brand / Section : —
Season : —
End use : —
Factory name : —
Factory code : —

Previous report : —
Product category : —
Product type : —
Test stage : FIRST TEST
Supplier name : —
Exported to : —

1. Conclusion:

	Tests description	Conformity
	EN 388:2016+A1:2018	
1	Abrasion resistance: 2016	Level 4
2	Cut resistance: 2016	Level 1
3	Tear strength resistance: 2016	Level 2
4	Puncture resistance: 2016	Level 1
	ISO 21420:2020	
5	pH - Textile (KCl solution)	Pass
6	Aromatic amines derived from azo colorants	Pass
7	Polycyclic Aromatic Hydrocarbons (8)	Pass
8	Dexterity	Level 5
9	XRF screening	Pass
10	XRF screening (Tin)	Pass
11	Phthalates	Pass

Pass: requirements met Fail: requirements not met None: no requirement for this test N/A: not applicable

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Approved by

Henry YAN 严滨
Laboratory Manager

Tony SHU 束永玮
Technical Supervisor for Chemical Lab

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2. Sample(s) description assigned by laboratory:

Size	Analyzed product	Description	Sample information
	GLOVE	Whole glove black(blue) nitrile(polyester) palm black(blue) nitrile(polyester) palm blue polyester back blue/black polyester(elastic) cuff	



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3. GLOVE/

Whole glove

	Method	Client Requirement	Unit	Result	Conformity
(+) 5.2. Dexterity	ISO 21420: 2020				
Smallest diameter of pin fulfilling test condition			mm	5.0	
Smallest diameter of pin fulfilling test condition (2)			mm	5.0	
Smallest diameter of pin fulfilling test condition (3)			mm	5.0	
Smallest diameter of pin fulfilling test condition (4)			mm	5.0	
Performance level				5	

black(blue) nitrile(polyester) palm

	Method	Client Requirement	Unit	Result	Conformity
(+) 4.1. Abrasion resistance: 2016	EN 388:2016 + A1:2018				
used consumables - abrasive				Klingspor PL31B Grit 180	
used consumables - adhesive				3M Scotch	
Number of cycles at the hole detection				>8000	
Number of cycles at the hole detection (2)				>8000	
Number of cycles at the hole detection (3)				>8000	
Number of cycles at the hole detection (4)				>8000	
Performance level				4	
(+) 4.1. Cut resistance: 2016	EN 388:2016 + A1:2018				
Deviation from the test method				No	
used consumables - canvas				LEM 6	
used consumables - blade				OLFA RB45	
C1				1.3	
T1				0.7	
1C1				1.3	
I1				1.5	
C2				1.3	
T2				0.7	
1C2				1.3	

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	Method	Client Requirement	Unit	Result	Conformity
I2				1.5	
C3				1.3	
T3				0.7	
1C3				1.3	
I3				1.5	
C4				1.3	
T4				0.7	
1C4				1.3	
I4				1.5	
C5				1.3	
T5				0.7	
1C5				1.3	
I5				1.5	
Mean value of test piece 1				1.5	
C1 bis				1.2	
T1 bis				0.6	
2C1bis				1.2	
I1 bis				1.5	
C2 bis				1.2	
T2 bis				0.6	
2C2bis				1.2	
I2 bis				1.5	
C3 bis				1.2	
T3 bis				0.7	
2C3bis				1.2	
I3 bis				1.6	
C4 bis				1.2	
T4 bis				0.7	
2C4bis				1.2	
I4 bis				1.6	
C5 bis				1.2	
T5 bis				0.6	
2C5bis				1.6	
I5 bis				1.4	

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	Method	Client Requirement	Unit	Result	Conformity
Mean value of test piece 2				1.5	
Considered value				1.5	
Performance level				1	
Observation				No comment	
(+) 4.1. Tear strength resistance: 2016	EN 388:2016 + A1:2018				
Tear strength			N	66	
Tear strength (2)			N	61	
Tear strength (3)			N	46	
Tear strength (4)			N	45	
Performance level				2	
(+) 4.1. Puncture resistance: 2016	EN 388:2016 + A1:2018				
Puncture resistance			N	44	
Puncture resistance (2)			N	35	
Puncture resistance (3)			N	33	
Puncture resistance (4)			N	40	
Performance level				1	

black(blue) nitrile(polyester) palm

	Method	Client Requirement	Unit	Result	Conformity
(+) 4.2. pH - Textile (KCl solution)	ISO 3071:2020				Pass
pH value		3.5< - <9.5		7.1	
▲ 4.2. Polycyclic Aromatic Hydrocarbons (8)	ISO 16190:2021				Pass
Benzo(a)anthracene		<1	mg/kg	<0.2	
Chrysene		<1	mg/kg	<0.2	
Benzo(b)fluoranthene/ Benz[e]acephenanthrylene		<1	mg/kg	<0.2	
Benzo(k)fluoranthene		<1	mg/kg	<0.2	
Benzo(a)pyrene/ Benzo[def]chrysene		<1	mg/kg	<0.2	
Dibenzo(a,h)anthracene		<1	mg/kg	<0.2	
Benzo(e)pyrene		<1	mg/kg	<0.2	
Benzo(j)fluoranthene		<1	mg/kg	<0.2	
(+) XRF screening	ASTM F2617 – 15				Pass

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	Method	Client Requirement	Unit	Result	Conformity
Cd (Cadmium)		<100	ppm	<100	
XRF screening (Tin)	ASTM F2617 – 15				Pass
Sn (Tin)		<150	ppm	<150	
▲ Phthalates	ISO 16181-1:2021				Pass
BBP . Butyl benzyl phthalate		<0.1	%	<0.0020	
DBP . Di-butyl phthalate		<0.1	%	<0.0020	
DEHP . Di-(2-ethylhexyl) phthalate		<0.1	%	<0.0020	
DIBP . Di-iso-butyl phthalate		<0.1	%	<0.0020	

blue polyester back

	Method	Client Requirement	Unit	Result	Conformity
(+) 4.2. pH - Textile (KCl solution)	ISO 3071:2020				Pass
pH value		3.5< - <9.5		6.5	
▲ 4.2. Aromatic amines derived from azo colorants	ISO 14362-1:2017 (w/extraction)				Pass
Accessible with fibre extraction		<30	mg/kg	<5	

blue/black polyester(elastic) cuff

	Method	Client Requirement	Unit	Result	Conformity
(+) 4.2. pH - Textile (KCl solution)	ISO 3071:2020				Pass
pH value		3.5< - <9.5		6.4	
▲ 4.2. Aromatic amines derived from azo colorants	ISO 14362-1:2017 (w/extraction)				Pass
Accessible with fibre extraction		<30	mg/kg	<5	

END OF TEST REPORT

(+)CNAS accreditation

▲: The test was carried out by external accredited laboratory under their accreditation scope.

Unless otherwise specified, the physical test items in this report performed in CTC Shanghai lab were conditioned and tested in the environment of T 23±2°C / RH 50±4%.

Table of Performance Level for Glove

Test Item	Performance Level					
	0##	1	2	3	4	5

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Abrasion Resistance (EN 388) Number of cycles (minimum)	<100	100	500	2000	8000	---
Blade Cut Resistance (EN 388) Index (I) (minimum)	<1.2	1.2	2.5	5.0	10.0	20.0
Tear Resistance (EN 388) Force (N) (minimum)	<10	10	25	50	75	---
Puncture Resistance (EN 388) Force (N) (minimum)	<20	20	60	100	150	---
Finger dexterity (EN ISO 21420) Smallest diameter of pin fulfilling test conditions (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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