TEST REPORT

Report No.: 66.430.25.0475.01

Dated: 2025-02-28

中国认可
国际互认
检测
TESTING
CNAS L7038

Applicant:	Porto Ltda.
Address:	Lima 1832, Montevideo Uruguay
Contact Person:	Mrs. Verónica Porto
Sample Submitted:	The Sample(s) and Its (Their) Information(s) Was (Were) Submitted by Applicant and Identified. A. Beige/Blue nitrile gloves (the whole gloves) - 8 pairs
Standard:	EN 388:2016+A1:2018 & EN ISO 21420:2020
Sample Description:	Jersey cotton shell with nitrile full coated glove
Colour:	blue and beige
Style No.:	NL95A/J
Brand:	Gripp
Country of Origin:	China
Receipt Date of Sample:	2025-02-20
Date of Testing:	2025-02-21 to 2025-02-26
Test Result(s):	Refer to the Section 3 and 4

Note:
(1) Each order is subject to acceptance of our General Terms and Conditions and the TÜV SÜD Testing, Certification, Validation and Verification Regulation, in the version valid at the time the contract is concluded. For full version of above both documents, please visit the link to view.
(2) The results in this report are relevant only to the sample(s) tested.
(3) The test report shall not be reproduced except in full without the written approval of the laboratory.
(4) Disclaimer Measurement Uncertainty:
Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019 or CNAS-GL015:2022.
(5) The testing report without CMA stamp is not legally binding and could only be used as internal reference material for the applicant. It shall not be provided as a notarial certification.

1. Test Sample Photo(s)



Sample A

2. Identification of The Test Subject

Sample	Description	Remark
001	Beige fleece fabric with Blue nitrile rubber coated (palm & back)	Finished Product (A)
002	Beige fleece fabric with White elastic thread (cuff)	Finished Product (A)

3. Conclusion

No.	Test Parameter(s)	Conclusion
1.	Abrasion Resistance	Level 2
2.	Blade Cut Resistance (Index)	Level 1
3.	Tear Strength	Level 1
4.	Puncture Resistance	Level 1
5.	Sizing and Measurement of Gloves	#
6.	Dexterity	Level 5
7.	Azo-Dye Test	Pass
8.	pH Value Test	Pass
9.	Polycyclic Aromatic Hydrocarbons (PAHs) Content Test	Pass

Notes: Pass = Meet Requirement
Fail = Below Requirement
# = No Comment
- = Did Not Perform
N/A = Not Applicable

Remark: (1) Samples are tested as received.

TÜV SÜD Certification and Testing (China) Co., Ltd. Xiamen Branch

Reviewed by:

Stacey Yang
Softlines Department

Approved by:

Damon Zheng
Softlines Department

Nemo Chen
Softlines Department

4. Test Result(s)

4.1 Abrasion Resistance (EN 388:2016+A1:2018 Clause 4.1 & 6.1)

Pressure: (9.0±0.2) kPa
Adhesive tape: 3M™ Scotch
Abrasive paper: Klingspor PL31B, Grit 180

Sample	Position	Parameters		Results (rubs)	Requirement	Classification
A	Palm	Breakthrough rubs	Specimen 1	>500	/	/
			Specimen 2	>500		
			Specimen 3	>500		
			Specimen 4	>500		
		The lowest of the above values		>500	*	Level 2

Remark:

* =

Performance level	1	2	3	4
Number of rubs	100	500	2,000	8,000

4.2 Blade Cut Resistance (Index) (EN 388:2016+A1:2018 Clause 4.1 & 6.2)

Blade: OLFA RB45
Cotton Canvas: n° 14861

Sample	Position	Specimen	Sequence	Control specimen C_n	Test specimen T	Control specimen C_{n+1}	Index I	Requirement	Classification
A	Palm	Specimen 1	1	1.2	0.6	1.2	1.50	/	/
			2	1.2	0.6	1.2	1.50		
			3	1.2	0.7	1.2	1.58		
			4	1.2	0.6	1.2	1.50		
			5	1.2	0.6	1.2	1.50		
			Final Index Value				1.52		
		Specimen 2	1	1.2	0.6	1.2	1.50		
			2	1.2	0.6	1.3	1.48		
			3	1.3	0.7	1.3	1.54		
			4	1.3	0.6	1.3	1.46		
			5	1.3	0.5	1.3	1.38		
			Final Index Value				1.47		
			The lowest of the two calculated index values				1.47	*	Level 1

Remark:

* =

Performance level	1	2	3	4	5
index	1.2	2.5	5.0	10.0	20.0

4.3 Tear Strength (EN 388:2016+A1:2018 Clause 4.1 & 6.4)

Sample	Position	Direction	Parameters	Results (N)	Requirement	Classification
A	Palm	Along cuff to fingertips	Specimen 1	20.8	/	/
			Specimen 2	15.8		
		Across the palm width	Specimen 1	19.1		
			Specimen 2	14.1		
		The lowest of the individual values		14.1	*	Level 1

Remark:

*=

Performance level	1	2	3	4
Tear force (N)	10	25	50	75

4.4 Puncture Resistance (EN 388:2016+A1:2018 Clause 4.1 & 6.5)

Sample	Position	Parameters		Results (N)	Requirement	Classification
A	Palm	The highest value of the force	Specimen 1	34.4	/	/
			Specimen 2	27.6		
			Specimen 3	31.3		
			Specimen 4	38.1		
		The lowest of the individual values		27.6	*	Level 1

Remark:

* =

Performance level	1	2	3	4
Puncture resistance (N)	20	60	100	150

4.5 Sizing and Measurement of Gloves (EN ISO 21420:2020 Clause 5.1 & 6.1)

Sample	Size	Parameters	Results	Requirement	Conclusion
A	-	Fitting	Fit size 10	Sizes of gloves are defined with respect to the sizes of the hands they are to fit	-

4.6 Dexterity (EN ISO 21420:2020 Clause 5.2 & 6.2)

Sample	Specimen	Parameters	Results (mm)	Classification
A	Specimen 1	The smallest diameter of the pin that can be picked up	5	/
	Specimen 2	The smallest diameter of the pin that can be picked up	5	
	Specimen 3	The smallest diameter of the pin that can be picked up	5	
	Specimen 4	The smallest diameter of the pin that can be picked up	5	
	The smallest diameter of the pin that can be picked up		5	Level 5

Remark:

Performance level	0	1	2	3	4	5
Smallest diameter of pin (mm)	No pin can be picked up	11.0	9.5	8.0	6.5	5

4.7 Azo-Dye Test (EN ISO 21420:2020 Clause 4.2)

Test with reference to ISO 14362-1:2017- Textile materials
ISO 14362-3:2017- Textile materials (4-aminoazobenzene)
ISO 17234-1:2020 - for Leather
ISO 17234-2:2011 - for Leather (4-aminoazobenzene), determined by GCMS/HPLC-DAD
[Reporting Limit = 5.0 mg/kg]

No.	Substances List	CAS No.	Result (mg/kg)		Requirement (mg/kg)
			001	002	
1	4-Aminobiphenyl	92-67-1	ND	ND	<30
2	Benzidine	92-87-5	ND	ND	<30
3	4-Chloro-2-methylaniline	95-69-2	ND	ND	<30
4	2-Naphthylamine	91-59-8	ND	ND	<30
5	o-Aminoazotoluene	97-56-3	ND	ND	<30
6	5-Nitro-o-toluidine	99-55-8	ND	ND	<30
7	4-Chloroaniline	106-47-8	ND	ND	<30
8	2,4-diaminoanisole	615-05-4	ND	ND	<30
9	Bis-(4-aminophenyl)methane	101-77-9	ND	ND	<30
10	3,3'-Dichlorobenzidine	91-94-1	ND	ND	<30
11	3,3'-Dimethoxybenzidine	119-90-4	ND	ND	<30
12	o-tolidine	119-93-7	ND	ND	<30
13	3,3'-Dimethyl-4,4'-diaminadiphenylmethane	838-88-0	ND	ND	<30
14	2-Methoxy-5-methylaniline	120-71-8	ND	ND	<30
15	4,4'-Methylene bis(o-chloroaniline)	101-14-4	ND	ND	<30
16	4,4'-Oxydianiline	101-80-4	ND	ND	<30
17	4,4'-Thiodianiline	139-65-1	ND	ND	<30
18	o-toluidine	95-53-4	ND	ND	<30
19	2,4-Diaminotoluene	95-80-7	ND	ND	<30
20	2,4,5-Trimethylaniline	137-17-7	ND	ND	<30
21	o-Anisidine	90-04-0	ND	ND	<30
22	4-Amino-azobenzene	60-09-3	ND	ND	<30
23	2,4-Dimethylaniline	95-68-1	ND	ND	<30
24	2,6-Dimethylaniline	87-62-7	ND	ND	<30
25	4-chloro-o-toluidinium chloride	3165-93-3	ND	ND	<30
26	2-Naphthylammoniumacetate	553-00-4	ND	ND	<30
27	2,4-diaminoanisole sulphate	39156-41-7	ND	ND	<30
28	2,4,5-trimethylanilinehydrochloride	21436-97-5	ND	ND	<30
	Test Method	--	ISO 14362-1:2017	ISO 14362-1:2017	--
	Conclusion	--	Pass	Pass	--

Remark: 1. ND = not detected (Less than Reporting Limit)
2. mg/kg = milligram per kilogram
3. “<” denotes less than

4.8 pH Value Test (EN ISO 21420:2020 Clause 4.2)

Test with reference to ISO 3071:2020, using KCl solution, determined by pH meter

Sample	Result	Requirement	Conclusion
001	6.9	3.5-9.5	Pass
002	7.0	3.5-9.5	Pass

Remark: 1. Temperature of the solution is 22.0°C during measurement

4.9 Polycyclic Aromatic Hydrocarbons (PAHs) Content Test (EN ISO 21420:2020 Clause 4.2)

Test with reference to ISO 16190:2021, determined by GC-MS

[Reporting Limit = 0.10 mg/kg]

No.	Substances List	CAS No.	Result (mg/kg)	Requirement (mg/kg)
			001	
1	Benzo[a]pyrene	50-32-8	ND	Each <1
2	Benzo[e]pyrene	192-97-2	ND	
3	Benzo[a]anthracene	56-55-3	ND	
4	Benzo[b]fluoranthene	205-99-2	ND	
5	Benzo[j]fluoranthene	205-82-3	ND	
6	Benzo[k]fluoranthene	207-08-9	ND	
7	Chrysene	218-01-9	ND	
8	Dibenzo[ah]anthracene	53-70-3	ND	
Conclusion			Pass	--

Remark: 1. "mg/kg" denotes milligram per kilogram
2. "ND" denotes Not Detected
3. "<" denotes less than

-- END OF THE TEST REPORT --