Rev: 01

Dated: 2024-12-31

TUV

Applicant:

Address:

Sample Description: Anti Cut Non Coated Glove

Model No.: /

Supplier:

Sample Received Date: 2024-12-23, Shenzhen

Test Period: From 2024-12-23 to 2024-12-30, Shenzhen

Purpose of Verification of RoHS (Restriction of Hazardous Substances) directive 2011/65/EU

examination: and its amendment (EU) 2015/863 on submitted samples

Test Results: Refer to following page(s)

Remark: The result relates only to the items tested.

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

Prepared by:

Reviewed by:

Jenny Luo

Project Handler

Scarlett Liang

Designated Reviewer

where

Any use for advertising purposes must be granted in writing. This test report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4.

Disclaimer Measurement Uncertainty: Unless otherwise agreed upon, pass or fail verdicts are given based on the measured values without consideration of measurement uncertainties. Please note, every test method has a measurement uncertainty which has been evaluated by the laboratory according to ISO IEC 17025 requirements. By taking measurement uncertainties into account it might happen that measured values can neither be assessed as pass or fail.

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

TÜV SÜD Group

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SUMMARY OF TEST RESULTS

No.	Test Requested	Conclusion	Remarks
1.	Heavy Metal (Pb, Cd, Hg and Cr VI) Content	PASS	
2.	Polybrominated Biphenyls (PBBs) and Polybrominated Diphenyl Ethers (PBDEs) Content	PASS	
3.	Phthalates (DEHP, BBP, DBP and DIBP) Content	PASS	



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1. TESTED SUBJECT DESCRIPTION

Test No.	Sample No.	Tested Material Description	Photo
Т1	001	Grey/Black fabric gloves	001



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2. TEST RESULT(S)

2.1 SCREENING TEST

Test method: With reference to EN 62321-1:2013, EN IEC 62321-2:2021, EN 62321-3-1:2014 and EN 62321-8:2017. For Heavy Metals and Flame Retardants, analyzed by Energy Dispersive X-ray Fluorescence Spectrometer (XRF); for phthalates, analyzed by Gas Chromatography and Mass Spectrometer (GC-MS).

Sample	Heavy Metals and Flame Retardants				Phthalates				
No.	Cd	Cr	Hg	Pb	Br	DEHP	BBP	DBP	DIBP
001	BL	Inc. ^(a)	BL	BL	BL	BL	BL	BL	BL

Note:

- "BL" denotes below limit
- "Inc." denotes inconclusive
- "(a)" denotes further confirmation test was conducted, results are listed in 2.2.



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-XRF screening limits in mg/kg for regulated elements in various matrices

ELEMENT	POLYMER				
CLEIVIEINI	BL	INCONCLUSIVE	OL		
Cd	X≤(70-3σ)	(70-3σ) <x<(130+3σ)< td=""><td colspan="2">X≥(130+3σ)</td></x<(130+3σ)<>	X≥(130+3σ)		
Pb	X≤(700-3σ)	(700-3σ) <x<(1300+3σ)< td=""><td>X≥(1300+3σ)</td></x<(1300+3σ)<>	X≥(1300+3σ)		
Hg	X≤(700-3σ)	(700-3σ) <x<(1300+3σ)< td=""><td>X≥(1300+3σ)</td></x<(1300+3σ)<>	X≥(1300+3σ)		
Br	X≤(300-3σ)	X>(300-3σ)	NA		
Cr	X≤(700-3σ)	≤(700-3σ) X>(700-3σ)			
	METAL				
ELEMENT	BL	INCONCLUSIVE	OL		
Cd	X≤(70 - 3σ)	(70-3σ) <x<(130+3σ)< td=""><td>X≥(130+3σ)</td></x<(130+3σ)<>	X≥(130+3σ)		
Pb	X≤(700-3σ)	(700-3σ) <x<(1300+3σ)< td=""><td>X≥(1300+3σ)</td></x<(1300+3σ)<>	X≥(1300+3σ)		
Hg	X≤(700-3σ)	(700-3σ) <x<(1300+3σ)< td=""><td>X≥(1300+3σ)</td></x<(1300+3σ)<>	X≥(1300+3σ)		
Cr	X≤(700-3σ)	X>(700-3σ)	NA		
	COMPLEX MATERIAL				
ELEMENT	BL	INCONCLUSIVE	OL		
Cd	X≤(50 - 3σ)	(50-3σ) <x<(150+3σ)< td=""><td>X≥(150+3σ)</td></x<(150+3σ)<>	X≥(150+3σ)		
Pb	X≤(500-3σ)	(500-3σ) <x<(1500+3σ)< td=""><td>X≥(1500+3σ)</td></x<(1500+3σ)<>	X≥(1500+3σ)		
Hg	X≤(500-3σ)	(500-3σ) <x<(1500+3σ)< td=""><td>X≥(1500+3σ)</td></x<(1500+3σ)<>	X≥(1500+3σ)		
Br	X≤(250-3σ)	X>(250-3σ)	NA		
Cr	X≤(500-3σ)	X>(500-3σ)	NA		

-Screening limits in mg/kg for regulated phthalates in various matrices

PHTHALATES	BL	INCONCLUSIVE
DEHP	X<600	X≥ 600
BBP	X<600	X≥ 600
DBP	X<600	X≥ 600
DIBP	X<600	X≥ 600

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2.2 HEAVY METAL CONTENT

Test method: With reference to EN 62321-4:2014 /A1:2017, EN 62321-5:2014, EN 62321-7-1:2015 and EN 62321-7-2:2017, analyzed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES) and Ultraviolet—visible spectrophotometer (UV-Vis).

[Reporting Limit: 2.0 mg/kg for Cadmium; 10.0 mg/kg or 0.10 µg/cm² for Hexavalent Chromium, 10.0 mg/kg for Lead and Mercury.]

<u> </u>	, ,						
	Result(s)						
Sample No.	Total Cadmium	Hexavalent Chromium	Hexavalent Chromium	Total Mercury	Total Lead		
001		<10.0	1				
Unit	mg/kg	mg/kg	μg/cm²	mg/kg	mg/kg		
RoHS Requirement	100	1000	Negative#	1000	1000		

Note:

- "mg/kg" denotes milligram per kilogram
- "µg/cm²" denotes micrograms per square centimeter
- "<" denotes less than
- "Negative" denotes the absorbance value of sample is < 0.10 μg/cm², the sample is considered to be negative for Hexavalent Chromium.
- "#" According to DIRECTIVE 2011/65/EU Article 4(1) and Annex II. While, positive means the presence of CrVI on tested areas and the result(s) was (were) regarded as in conflict with European Parliament and Council Directive 2011/65/EU, Article 4(1) and Annex II.
- "--" denotes tested by XRF, result is listed in 2.1



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