

Test Report

SL52425343285801TX

Date: October 25, 2024 Page 1 of 9

SHANDONG IBOATE SECURITY TECHNOLOGY CO., LTD
NO.200 CHANGJIANG ROAD, ECONOMIC AND TECHNOLOGICAL DEVELOPMENT ZONE, YANTAI,
SHANGDONG, CHINA

The following sample(s) was/were submitted and identified on behalf of the client as:

Sample Description : (A,B)13 Gauge Polyester Glove PU Palm Dipped Gloves

Sample Color : (A)Black;(B)White

Sample Dimension/Size : 9/10

Style No. : PU0915

Proposed Care Instruction : -

Sample Receiving Date : Oct 17, 2024

Testing Period : Oct 18, 2024 - Oct 25, 2024

Test Result(s) : Unless otherwise stated the results shown in this test report refer only to the sample(s) tested, for further details, please refer to the following page(s).



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Protective Gloves against Mechanical Risks (EN 388:2016+A1:2018)

Conclusion	A	B	Remark
Clause 4.1 Abrasion Resistance	Level 3	-	
Clause 4.1 Blade Cut Resistance	Level 1	-	
Clause 4.1 Tear Resistance	-	Level 3	
Clause 4.1 Puncture Resistance	-	Level 1	

Protective Gloves-General Requirements and Test Methods (EN ISO 21420:2020)

Conclusion	A	B	Remark
EN ISO 21420:2020 Clause 4.2 Determination of pH Value	PASS	PASS	
EN ISO 21420:2020 Clause 5.2 Dexterity	Level 5	-	
EN ISO 21420:2020 Clause 4.2 Azo Dyes for Textile	PASS	PASS	
EN ISO 21420:2020 Clause 4.2 Dimethylformamide (DMFa)	FAIL	FAIL	
EN ISO 21420:2020 Clause 4.2 Polycyclic Aromatic Hydrocarbons (PAH)	PASS	PASS	

Remark(s) : FAIL=Below General Requirement
PASS=Meet General Requirement

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd

Sara Guo

Sara Guo (Account Executive)

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COMPONENT LIST / List of Materials

Sample No.	Component No.	Description	Material	Color	Remark
A	1	Palm			
A	2	Back			
A	3	Cuff			
A	4	Elastic			
B	5	Palm			
B	6	Back			
B	7	Cuff			
B	8	Elastic			



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Test Result

Protective Gloves against Mechanical Risks

EN 388:2016+A1:2018

Clause 4.1 Abrasion Resistance

(EN 388:2016+A1:2018, Clause 6.1)

A

As Received	No. 1	No. 2	No. 3	No. 4	Minimum
Abrasion Result(Rubs)	5500	4700	5000	4700	4700

Recommended Level: 3

Remark: Level 1: 100rubs; Level 2: 500rubs; Level 3: 2000rubs; Level 4: 8000rubs; Level 5: -

Clause 4.1 Blade Cut Resistance

(EN 388:2016+A1:2018 Clause 6.2)

Sample A

As received

	Unit	C _n	T	C _{n+1}	Index	Index of each specimen
Specimen 1						
Sequence 1	-	1.0	0.3	1.0	1.3	1.3
Sequence 2	-	1.0	0.3	1.0	1.3	
Sequence 3	-	1.0	0.4	1.0	1.4	
Sequence 4	-	1.0	0.3	1.0	1.3	
Sequence 5	-	1.0	0.3	1.0	1.3	
Specimen 2						
Sequence 1	-	1.0	0.3	1.0	1.3	1.3
Sequence 2	-	1.0	0.3	1.0	1.3	
Sequence 3	-	1.0	0.3	1.0	1.3	
Sequence 4	-	1.0	0.3	1.0	1.3	
Sequence 5	-	1.0	0.3	1.0	1.3	

Lowest of the Two Average : 1.3

Recommended level: 1

Remark :

1) C_n & C_{n+1}= Cut-through cycles of control specimen ; T=Cut-through cycles of test specimen ;

2) Performance requirement : Level 1-1.2, Level 2-2.5, Level 3-5.0, Level 4-10.0, Level 5-20.0

The performance level is defined as the lowest of the two specimen index values.

3) Consumables information:

Canvas : STM 611

Blade : RB45-10



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Clause 4.1 Tear Resistance

(EN 388:2016+A1:2018, Clause 6.4)

As Received

-	Unit	B
In the direction of the glove - 1#	N	53
In the direction of the glove - 2#	N	56
Across the palm width of the glove -1#	N	55
Across the palm width of the glove -2#	N	53
Lowest value	N	53

Recommended Level: 3

Remark: Level 1: 10N; Level 2: 25N; Level 3: 50N; Level 4: 75N; Level 5: -

Clause 4.1 Puncture Resistance

(EN 388:2016+A1:2018, Clause 6.5)

B

As Received	No. 1	No. 2	No. 3	No. 4	Minimum
Result(N)	30	27	32	29	27

Recommended Level: 1

Remark: Level 1: 20N; Level 2: 60N; Level 3: 100N; Level 4: 150N

Protective Gloves-General Requirements and Test Methods

EN ISO 21420:2020

EN ISO 21420:2020 Clause 4.2 Determination of pH Value

(ISO 3071:2020;0.1mol/L KCl extraction)

-	Unit	1	2	3	Requirement
pH Value	-	6.5	6.7	6.7	3.5-9.5
Conclusion		PASS	PASS	PASS	
-	Unit	5	6	7	Requirement
pH Value	-	8.9	6.7	6.6	3.5-9.5
Conclusion		PASS	PASS	PASS	

Remark:

1. Extraction medium:0.1mol/L KCl solution
2. pH value of extraction medium: 5.66
3. Temperature of the extraction solution: 21.7°C



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EN ISO 21420:2020 Clause 5.2 Dexterity

(EN ISO 21420:2020, Clause 6.2)

-	Unit	A
Smallest diameter of pin fulfilling test conditions	mm	5.0
Recommended Level	5	

Finger dexterity test

Level of performance	Smallest diameter of pin fulfilling test conditions (mm)
1	11.0
2	9.5
3	8.0
4	6.5
5	5.0



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EN ISO 21420:2020 Clause 4.2 Azo Dyes for Textile (Direct Reduction & Colorant Extraction)

Textile: According to EN ISO 14362-1:2017 – Analysis was conducted with GC-MS/HPLC-DAD.

Test Item(s)	CAS-No	Result (mg/kg)	
		2+4+8	
		Direct Reduction	Colorant Extraction
4-Aminobiphenyl	92-67-1	ND	ND
Benzidine	92-87-5	ND	ND
4-Chlor-o-toluidine	95-69-2	ND	ND
2-Naphthylamine	91-59-8	ND	ND
o-Aminoazotoluene	97-56-3	ND	ND
5-Nitro-o-Toluidine/2-Amino-4-Nitrotoluene	99-55-8	ND	ND
4-Chloroaniline	106-47-8	ND	ND
4-Methoxy-m-Phenylenediamine/2,4-Diaminoanisole	615-05-4	ND	ND
4,4'-Diaminodiphenylmethane, MDA	101-77-9	ND	ND
3,3'-Dichlorobenzidine	91-94-1	ND	ND
3,3'-Dimethoxybenzidine	119-90-4	ND	ND
3,3'-Dimethylbenzidine	119-93-7	ND	ND
4,4'-methylenedi-o-Toluidine/3,3'-Dimethyl-4,4'-Diaminodiphenylmethane	838-88-0	ND	ND
p-Cresidine	120-71-8	ND	ND
4,4'-Methylene-bis-(2-chloroaniline)	101-14-4	ND	ND
4,4'-Oxydianiline	101-80-4	ND	ND
4,4'-Thiodianiline	139-65-1	ND	ND
o-Toluidine	95-53-4	ND	ND
4-Methyl-m-Phenylenediamine/2,4-Toluyldiamine, TDA	95-80-7	ND	ND
2,4,5-Trimethylaniline	137-17-7	ND	ND
4-Aminoazobenzene	60-09-3	ND	ND
O-Anisidine	90-04-0	ND	ND
Conclusion		PASS	PASS

Requirement: Max.5mg/kg

Note:

ND = Not Detected

Reporting Limit = 5 mg/kg (for individual compound)

Remark:

(1) *Direct reduction refers to the extraction and reduction according to EN ISO 14362-1:2017 clause 10.2 and relevant clauses.

*Colorant extraction refers to the colourant extraction and subsequent reduction according to EN ISO 14362-1:2017 Clause 10.1 and relevant clauses.

(2) EN ISO 14362-1:2017 will enable further cleavage of 4-AAB (CAS No. 60-09-3) to non-forbidden amines: aniline and p-phenylenediamine. If aniline and/or p-phenylenediamine is not found, 4-AAB is considered as "ND" (i.e. <5.0 mg/kg). Otherwise, EN ISO 14362-3:2017 will be employed to verify the presence of 4-AAB.



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(3) The result interpretation and assessment guide according to Annex C of EN ISO 14362-1:2017 should be taken into account when assessing the source of amine.

EN ISO 21420:2020 Clause 4.2 Dimethylformamide (DMFa)

Test Method: With reference to EN 16778:2016, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Unit(s)	RL	1-Trial1	1-Trial2	1-Average	Req.
Dimethylformamide (DMFa)	68-12-2	mg/kg	5	2362#	2091#	2226#	1000
Conclusion					Fail		

Test Item(s)	CAS No.	Unit(s)	RL	5-Trial1	5-Trial2	5-Average	Req.
Dimethylformamide (DMFa)	68-12-2	mg/kg	5	2677#	2666#	2672#	1000
Conclusion					Fail		

Remark: ND = Not Detected
RL = Reporting Limit
= Exceed the limit.

Notes: (1) The final result is the average of 2 trials.

EN ISO 21420:2020 Clause 4.2 Polycyclic Aromatic Hydrocarbons (PAH)

Test Method: With reference to ISO 16190:2021, analysis was performed by GC-MS/GC-MSMS.

Test Item(s)	CAS No.	Unit(s)	RL	1	5	Req.
Benzo(a)anthracene (BaA)	56-55-3	mg/kg	0.20	ND	ND	1
Benzo(e)pyrene (BeP)	192-97-2	mg/kg	0.20	ND	ND	1
Benzo(j)fluoranthene (BjF)	205-82-3	mg/kg	0.20	ND	ND	1
Chrysene (CHR)	218-01-9	mg/kg	0.20	ND	ND	1
Benzo(b)fluoranthene (BbF)	205-99-2	mg/kg	0.20	ND	ND	1
Benzo(k)fluoranthene (BkF)	207-08-9	mg/kg	0.20	ND	ND	1
Benzo(a)pyrene (BaP)	50-32-8	mg/kg	0.20	ND	ND	1
Dibenzo(a,h)anthracene (DBA)	53-70-3	mg/kg	0.20	ND	ND	1
Conclusion				Pass	Pass	

Remark: ND = Not Detected
RL = Reporting Limit



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