

# TEST REPORT

Report No.: S220704130\_1

02 August 2022

APPLICANT:

*The content of this section is  
 manufacturer's information*

Date of receipt : 25 July 2022  
 Testing period : 02 Aug. 2022  
 : 02 Aug. 2022

Buyer: —

Sample description: 13 gauge carbon+polyester liner with PU palm coated

Style / Article no. : SN-815

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 ISO 21420:2020	
1	Vertical resistance of material	Pass

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

Approved by



Henry YAN 严滨  
 Laboratory Manager



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## 2. Sample(s) description assigned by laboratory:

<u>Size</u>	<u>Analyzed product</u>	<u>Description</u>	<u>Sample information</u>
	GLOVE	white(grey) PU(carbon/polyester) palm grey carbon/polyester back grey carbon/polyester/elastics cuff	



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### 3. GLOVE/

white(grey) PU(carbon/polyester) palm

	Method	Client Requirement	Unit	Result	Conformity
<b>● 4.4.1. Vertical resistance of material</b> Pre-conditioning Test apparatus Number of test piece(s) Applied voltage Vertical resistance (1) Vertical resistance (2) Vertical resistance (3) Vertical resistance (4) Vertical resistance (5)	EN 16350: 2014			(23±1)°C,(25±5)%RH for 48H Smaller specimen (EN 61340-2-3) 5 V 10 0.845 0.648 0.652 0.755 0.748	Pass
<b>Standard EN 16350 requirement :</b> < 100 Mohms = < 1X10 <sup>8</sup> <b>Result Test :</b> Minimum 0.648 Mohms = 6.48x10 <sup>5</sup> ohms Maximum 0.845 Mohms = 8.45x10 <sup>5</sup> ohms Average 0.729 Mohms = 7.29x10 <sup>5</sup> ohms					

grey carbon/polyester back

	Method	Client Requirement	Unit	Result	Conformity
<b>● 4.4.1. Vertical resistance of material</b> Pre-conditioning Test apparatus Number of test piece(s) Applied voltage Vertical resistance (1) Vertical resistance (2) Vertical resistance (3) Vertical resistance (4) Vertical resistance (5)	EN 16350: 2014			(23±1)°C,(25±5)%RH for 48H Smaller specimen (EN 61340-2-3) 5 V 10 0.129 0.153 0.282 0.235 0.228	Pass

grey carbon/polyester/elastics cuff

	Method	Client Requirement	Unit	Result	Conformity
<b>● 4.4.1. Vertical resistance of material</b>	EN 16350: 2014				Pass

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To declare the conformity to the requirement, the uncertainty of measurement, associated to the test results, has not been taken into account.

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	Method	Client Requirement	Unit	Result	Conformity
Pre-conditioning				(23±1)°C,(25±5)%RH for 48H	
Test apparatus				Smaller specimen (EN 61340-2-3)	
Number of test piece(s)				5	
Applied voltage			V	10	
Vertical resistance (1)		<100	Mohms	0.544	
Vertical resistance (2)		<100	Mohms	0.348	
Vertical resistance (3)		<100	Mohms	0.557	
Vertical resistance (4)		<100	Mohms	0.528	
Vertical resistance (5)		<100	Mohms	0.447	

## END OF TEST REPORT

- The test was carried out by external accredited laboratory, not within their accreditation scope.



## Test Report

No. SHAEC2024949801

Date: 16 Dec 2020

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M I SIMI (CHINA) PRECISION MACHINERY TRADE CO., LTD.

BUILDING 10,999 HUANCHENG NORTH ROAD,FENGXIAN DISTRICT SHANGHAI CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : carbon liner coated with PU

SGS Job No. : SP20-249498 - SUZ  
Client Ref. Information : MTPTF/MTPHTF/MTPTZ/MTPHTZ  
Country of Origin : CHINA  
Date of Sample Received : 14 Dec 2020  
Testing Period : 14 Dec 2020 - 16 Dec 2020  
Test Requested : Selected test(s) as requested by client.  
Test Method : Please refer to next page(s).  
Test Results : Please refer to next page(s).

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

Tom Ni

Tom Ni  
Approved Signatory

scan to see the report



SHAEC2024949801



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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	SHA20-249498.001	Gray glove

Remarks :

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected ( < MDL )
- (4) "-" = Not Regulated

**RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU**

Test Method : With reference to IEC 62321-4:2013+AMD1:2017, IEC62321-5:2013, IEC62321-7-2:2017, IEC 62321-6:2015 and IEC62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1000	mg/kg	2	ND
Mercury (Hg)	1000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))	1000	mg/kg	8	ND
Sum of PBBs	1000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND



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# Test Report

No. SHAEC2024949801

Date: 16 Dec 2020

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Test Item(s)	Limit	Unit	MDL	001
Pentabromodiphenyl ether	-	mg/kg	5	ND
Hexabromodiphenyl ether	-	mg/kg	5	ND
Heptabromodiphenyl ether	-	mg/kg	5	ND
Octabromodiphenyl ether	-	mg/kg	5	ND
Nonabromodiphenyl ether	-	mg/kg	5	ND
Decabromodiphenyl ether	-	mg/kg	5	ND
Di-butyl Phthalate (DBP)	1000	mg/kg	50	ND
Benzyl Butyl Phthalate (BBP)	1000	mg/kg	50	ND
Di-2-Ethyl Hexyl Phthalate (DEHP)	1000	mg/kg	50	ND
Diisobutyl Phthalates (DIBP)	1000	mg/kg	50	ND

Notes :

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863. IEC 62321 series is equivalent to EN 62321 series  
[https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP\\_ORG\\_ID,FSP\\_LANG\\_ID:1258637,25](https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP_ORG_ID,FSP_LANG_ID:1258637,25)
- (2) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.
- (3) The restriction of DEHP, BBP, DBP and DIBP shall not apply to toys which are already subject to the restriction of DEHP, BBP, DBP and DIBP through entry 51 of Annex XVII to Regulation (EC) No 1907/2006.



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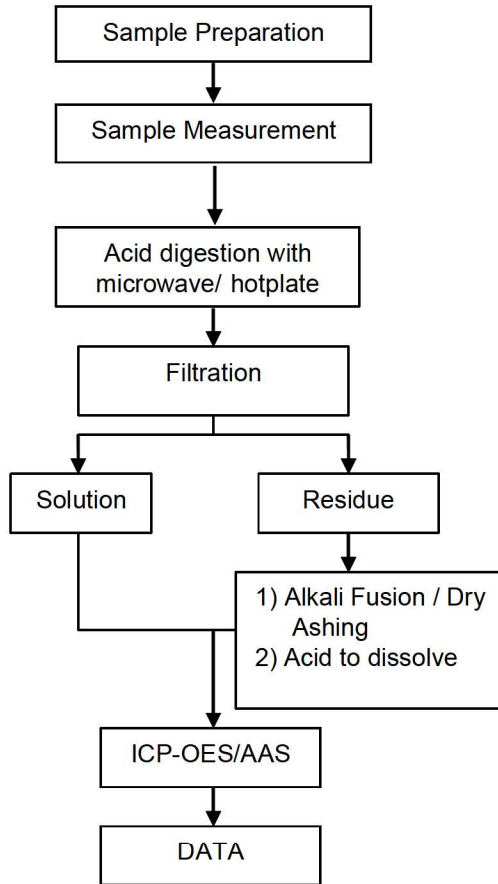
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**Elements (IEC62321) Testing Flow Chart**

1) These samples were dissolved totally by pre-conditioning method according to below flow chart.



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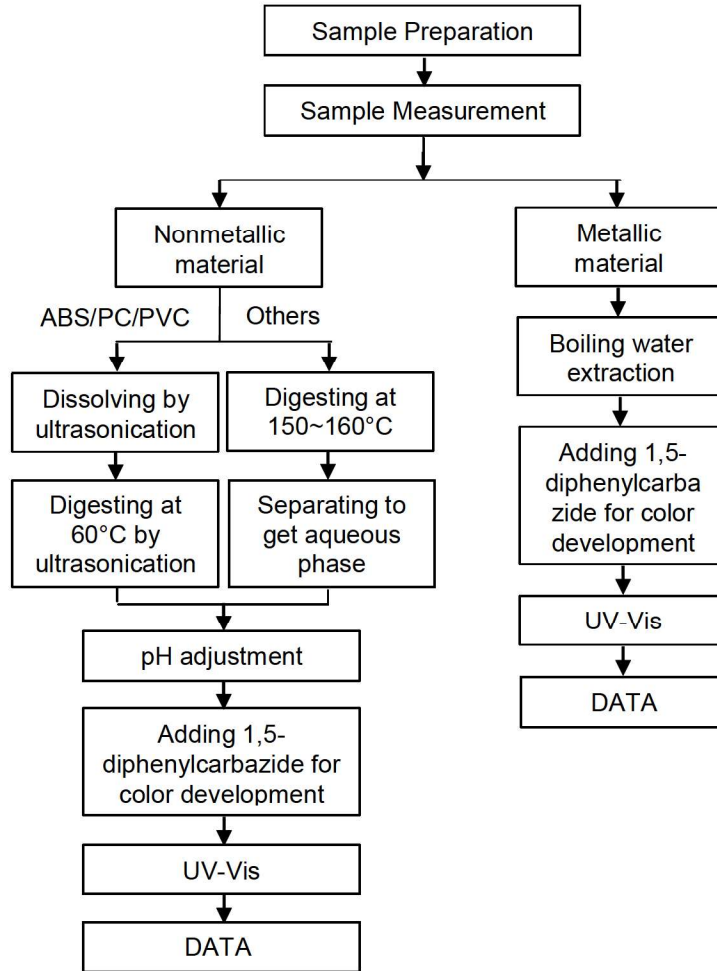
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## ATTACHMENTS

### Hexavalent Chromium (Cr(VI)) Testing Flow Chart

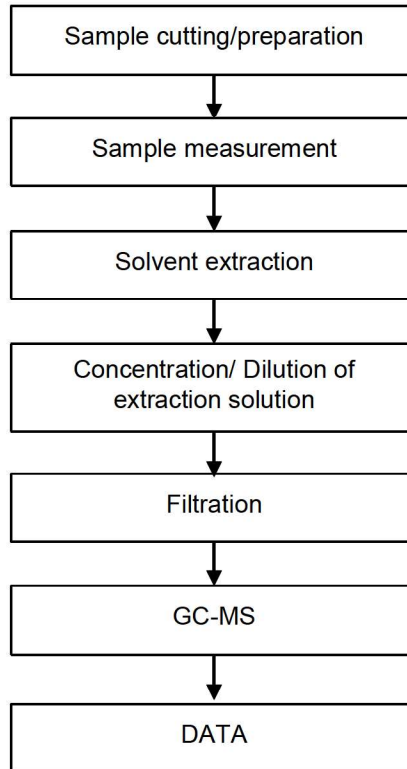


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**PBBs/PBDEs Testing Flow Chart**

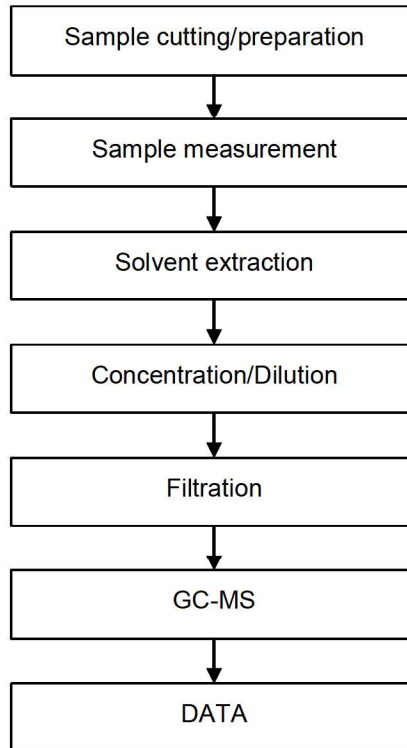


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### Phthalates Testing Flow Chart



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## SAFETY DATA SHEET(MSDS) ESD GLOVE

### Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Misumi ESD Gloves.

Company Name: MISUMI(THAILAND) CO., LTD.

Address: 300/24 MOO 1, EASTERN SEABOARD INDUSTRIAL ESTATE SOI 5  
T.TASITH, A.PLUAKDAENG, RAYONG 21140 THAILAND

Tel: 1382 Fax: 038-959202

### Section 2 - COMPOSITION / INFORMATION ON INGREDIENTS

Product Name: Misumi ESD Glove.

Material Composition	Percent(%)	CAS No.
Polyurethane	60%	9009-54-5
Polyester	30%	/
Carbon	8%	7440-44-0
Spandex	2%	/

### Section 3 - HAZARDS IDENTIFICATION

Potential Health Effects

Hazard Effects	Health Hazard Effects : None
	Environmental impact : None
	Physical and chemical hazard : None
	Special damages : None
Main Symptoms : No data	
Hazard Class : None	

### Section 4 - FIRST AID MEASURES

**Skin contact:** Wash hands with mild soap after handling.

**Eye contact:** If the eyes are irritated flush with water for ten minutes. Obtain medical attention.

Avoid ingestion. If ingested seek medical attention.

## **Section 5 - FIRE FIGHTING MEASURES**

Flash Point: > 100 °C

Lower Explosion Limit: N/A

Upper Explosion Limit: N/A

**Fire Hazard:** Stable under normal situation. Flammable / Combustible under extreme high heat and flame. Can generate toxic and combustible fumes, - carbon monoxide, nitrogen and hydrocarbon compounds, and soot.

**Fire Fighting Procedures:** Use full protective equipment and SCBA, filter masks, etc.

**Extinguishing Media:** High expansion foam, water fog and spray.

## **Section 6 - ACCIDENTAL RELEASE MEASURES**

**Release Response:** Retain for recycle or disposal.

## **Section 7 - HANDLING AND STORAGE**

Gloves shall maintain their properties when stored in dry condition at temperature between 10°C to 30°C. Protect gloves against ultraviolet light sources such as sunlight and oxidizing agents.

## **Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **Engineering Control**

Use local exhaust in confined spaces where gloves are heated.

### **Personal Protective Equipment**

**Eyes :** Not required. or just use goggles if gloves are heated.

**Inhalation :** Not required. or use face mask 3 ply

**Skin :** Not required. or use heat resistance gloves if heated to melting state.

## **Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance :** Textured, White color

**Physical State :** Rubber / Odor / pH : 7 (Reference average)

## **Section 10: CHEMICAL STABILITY AND REACTIVITY INFORMATION**

**Chemical Stability :** Stable at normal temperature and storage condition.

**Conditions to Avoid :** Avoid contact with excessive heat, sparks or open flame. Avoid dust accumulation.

### **Incompatibility with other materials**

No specific information is available, however strong oxidizers or reducing agents which generally not compatible with compounds.

### **Hazardous Decomposition Products**

Fumes produced when heated to decomposition temperatures may contain carbon monoxide, carbon dioxide, hydrogen cyanide, oxides of nitrogen, and small amounts of aromatic and aliphatic hydrocarbons. Combustion products from natural leather, like those of other natural and synthetic materials, must be considered toxic.

## **Section 11: TOXICOLOGICAL INFORMATION**

No information is available.

## **Section 12: ECOLOGICAL INFORMATION**

**Product of Biodegradation:** Biodegradable.

**Ecotoxicity:** Considered as inert.

## **Section 13: WASTE TREATMENT**

### **Waste disposal**

Preferred options for disposal are (1) recycling, (2) incineration with energy recovery, and (3) landfill. The high fuel value of this product makes option 2 very desirable for material that cannot be recycled, but incinerator must be capable of scrubbing out acidic combustion products. Treatment, storage, transportation, and disposal must be in accordance with applicable federal, state/provincial, and local regulations.

**Incineration:** Put appropriate amount of the gloves into the incinerator or furnace to destroy them following the requirements shown below.

Requirements:

- 1) Burning temperature exceeds 850°C
- 2) Combustion retention time is not less than 2 seconds

**Note:** Gloves should not be destroyed by open burning at low temperature or dispose at normal disposal area

## **Section 14: TRANSPORTATION INFORMATION**

Non-dangerous goods.

## **Section 15: LAW INFORMATION**

No information is available.

## **Section 16: OTHER INFORMATION**

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