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TEST REPORT

Report No.: S220704130_1

02 August 2022

Page 1/4

APPLICANT:

The content of this section is manufacturer's information

| | | D | ate of receipt | :25 July 2022 |
|---------------------|--|------------------|----------------|---------------|
| | | Т | esting period | :02 Aug. 2022 |
| Buyer: | | | | :02 Aug. 2022 |
| Sample descripti | on: 13 gauge carbon+polyester liner with P | U palm coated | | |
| Style / Article no. | :SN-815 | | | |
| Test(s) requested | : | | | |
| Service | : REGULAR | Previous report | : | |
| Brand / Section | : | Product category | : | |
| Season | : | Product type | : | |
| End use | : | Test stage | :FIRST TEST | |
| Factory name | : | Supplier name | : | |
| Factory code | : | Exported to | : | |
| | | | | |

1. Conclusion:

| | Tests description | <u>Conformity</u> |
|---|---------------------------------|-------------------|
| | 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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TEST REPORT

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Report No.: S220704130_1

02 August 2022

The content of this section is manufacturer's information APPLICANT:

2. Sample(s) description assigned by laboratory:

| Size | Analyzed product | Description | Sample information |
|------|------------------|--|--------------------|
| | GLOVE | | |
| | | white(grey) PU(carbon/polyester) palm | |
| | | grey carbon/polyester back | |
| | | grey carbon/polyester/elastics cuff | |



220704130



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TEST REPORT

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Report No.: S220704130_1

02 August 2022

The content of this section is manufacturer's information APPLICANT:

3. GLOVE/

white(grey) PU(carbon/polyester) palm

| | Method | Client Requirement | Unit | Result | Conformity |
|--|----------------|-----------------------|-------|------------------------------------|------------|
| 4.4.1. Vertical resistance of material | EN 16350: 2014 | | | | Pass |
| 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 | 0.845 | |
| Vertical resistance (2) | | <100 | Mohms | 0.648 | |
| Vertical resistance (3) | | <100 | Mohms | 0.652 | |
| Vertical resistance (4) | | <100 | Mohms | 0.755 | |
| Vertical resistance (5) | | <100 | Mohms | 0.748 | |

grey carbon/polyester back

| | Method | Client Requirement | Unit | Result | Conformity |
|--|----------------|-----------------------|-------|------------------------------------|------------|
| 4.4.1. Vertical resistance of material | EN 16350: 2014 | | | | Pass |
| 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 | 0.129 | |
| Vertical resistance (2) | | <100 | Mohms | 0.153 | |
| Vertical resistance (3) | | <100 | Mohms | 0.282 | |
| Vertical resistance (4) | | <100 | Mohms | 0.235 | |
| Vertical resistance (5) | | <100 | Mohms | 0.228 | |

grey carbon/polyester/elastics cuff

| | Method | Client Requirement | Unit | Result | Conformity |
|--|----------------|-----------------------|------|--------|------------|
| 4.4.1. Vertical resistance of material | EN 16350: 2014 | | | | Pass |



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TEST REPORT

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Report No.: S220704130_1

02 August 2022

| | | APPLICAN | The co | ntent of this section is man | ufacturer's informatio |
|-------------------------|--------|-----------------------|--------|------------------------------------|------------------------|
| | 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.



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No. SHAEC2024949801

Date: 16 Dec 2020

Page 1 of 8

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.

Ni lom

Tom Ni Approved Signatory





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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> | Limit | <u>Unit</u> | MDL | 001 |
|------------------------------|-------|-------------|-----|-----|
| 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. SHAEC20249498 | 01 | Date: 1 | 16 Dec 2020 | Page 3 of 8 |
|-----------------------------------|-------------------|-------------|------------|-------------|-------------|
| <u>Test Item(s)</u> | <u>Limit</u> | <u>Unit</u> | <u>MDL</u> | <u>001</u> | |
| 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
- (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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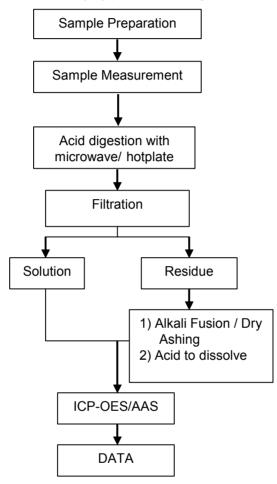


No. SHAEC2024949801

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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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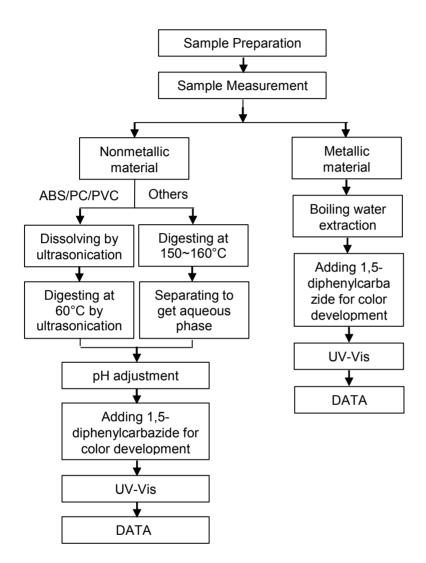
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Hexavalent Chromium (Cr(VI)) Testing Flow Chart





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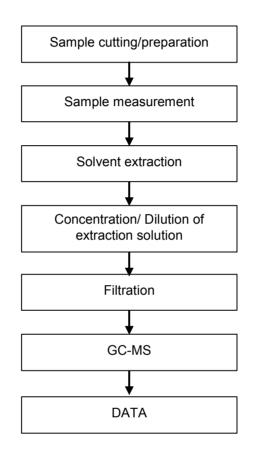
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PBBs/PBDEs Testing Flow Chart





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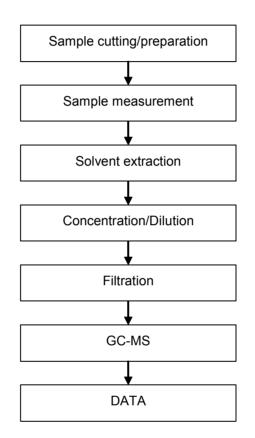
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Phthalates Testing Flow Chart





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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 °CLower Explosion Limit:N/AUpper 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 850oC

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

Section14: TRANSPORTATION INFORMATION

Non-dangerous goods.

Section 15: LAW INFOMATION

No information is available.

Section 16: OTHER INFORMATION

This Product Safety Data Sheet is offered solely for your information. Misumi(Thailand) Co.,Ltd provides no warranties, either express or implied, concerning the sage use of this product in your process or in combination with other substances and assumes no responsibility for the accuracy or completeness of the data contained herein. User has the sole responsibility to determine the suitability of they use and the manner of use contemplated.