## MANGA EN FIBRA HPPE ANTICORTE NIVEL 6 "KOBRA"

- **Descripción:** Manga en Fibra HPPE Anticorte Nivel 6 "KOBRA"
- **Marca:** Creattor
- **Presentación comercial:** Empaque por unidad
- **Talla:** Unica
- **Fabricación:** Producto importado.

## Descripción del producto

Manga Fabricada en Fibra HPPE también conocido como UHMWPE (polietileno de peso molecular ultra alto). Las Mangas de HPPE es un producto de polietileno de alto rendimiento. La fibra de polietileno de peso molecular ultra alto es un tipo de alta resistencia y alto módulo y buena resistencia a la abrasión, resistencia al corte, fibra de resistencia química, la misma resistencia más que 10 veces a el cable de acero de sección transversal, es también la fibra química con la mayor especificación y resistencia en fuerza.

## Características del producto

• Excelente protección: Debido a la alta resistencia, al alto módulo y al corte de fibra de polietileno de alto peso molecular, al envejecimiento y otras características, el material principal de las mangas anti-corte "KOBRA " tiene excelentes propiedades de protección, especialmente resistencia al corte, resistencia al desgarro y resistencia a la fricción.

• Vida útil extremadamente larga : La vida útil de las mangas se basa principalmente en su resistencia a la abrasión.

La resistencia a la fricción de las mangas "KOBRA" es más de 70 veces que la de las mangas de algodón, lo que hace que la vida útil sea de 6 a 10 veces mayor.

## Especificaciones del producto

- Color: GRIS
- Composición: HPPE(62%)+ FIBRA DE VIDRIO (20%)+SPANDEX(10%) + POLYESTER (8%)
- Dimension: 45 CMS
- Peso: 145 gramos
- Fabricados bajo Standard . EN388:2016 4X42C

## Aplicaciones

Los mangas "KOBRA" resistentes a cortes de alta destreza son ampliamente utilizadas en la construcción naval automotriz, fabricación y corte de vidrio, acabado de chapa de acero, fabricación de maquinaria, operaciones de ensamblaje, procesamiento de metales, rectificado de precisión, construcción, manejo de carga, clasificación de materiales, procesamiento de metales, metalurgia, hoja trabajo de metal, reparación de automóviles, protección de campo y socorro en casos de desastre, etc.

## Condiciones de Almacenamiento

- Humedad relativa máxima: 70%
- Temperatura máxima: 32°C
- Almacenar en un lugar fresco y seco, evitando los rayos directos del sol.
- Inadecuadas condiciones de almacenamiento, carga y descarga brutal probablemente afectasen la calidad de los productos.

## Disposición Final

- En caso de que el producto se encuentre contaminado con residuos, colóquelo en el respectivo contenedor según cual sea la sustancia o material.
- Los empaques contenedores deberán ser depositada en el contenedor correspondiente a residuos reciclables, en caso que esta se encuentre contaminada por alguna sustancia o material, deséchela en el mismo contenedor donde se depositen estas sustancias.

GARANTIA LIMITADA

CREATTOR garantiza que sus productos están libres de defectos en los materiales y en la mano de obra. Un producto sujeto a un reclamo de garantía se debe poner primero a disposición de un distribuidor CREATTOR autorizado o del vendedor a través del cual se ha adquirido el producto.

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TESTING
CNAS L4577

# TEST REPORT



Report No.: S230301329_1

08 March 2023

zhangwei@deelyglove.com

Date of receipt :02 Mar. 2023
Testing period :03 Mar. 2023
:06 Mar. 2023

**Buyer:** —

**Sample description:** 13G cut resistance liner with PU coating gloves level A6

Style / Article no. :PE550D
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 |
|---|---|---|
| | **ANSI-ISEA 105: 2016** | |
| 1 | Cutting resistance TDM | **Level A6** |

| | Tests description | Conformity |
|---|---|---|
| | **EN 388:2016+A1:2018** | |
| 2 | Abrasion resistance: 2016 | **Level 4** |
| 3 | Cut resistance: 2016 | **Level 4** |
| 4 | Tear strength resistance: 2016 | **Level 4** |
| 5 | Puncture resistance: 2016 | **Level 4** |

| | Tests description | Conformity |
|---|---|---|
| | **ISO 21420:2020** | |
| 6 | pH - Textile (KCl solution) | **Pass** |
| 7 | Aromatic amines derived from azo colorants | **Pass** |
| 8 | Dimethylformamide (DMF/DMFo/DMFa) | **Pass** |
| 9 | Polycyclic Aromatic Hydrocarbons (8) | **Pass** |
| 10 | Dexterity | **Level 5** |
| 11 | XRF screening | **Pass** |
| 12 | XRF screening (Tin) | **Pass** |
| 13 | Phthalates | **Pass** |

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

Approved by

Henry YAN 严俊
Laboratory Manager

Tony SHU 束永炜
Technical Supervisor for Chemical Lab

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

| Size | Analyzed product | Description | Sample information |
|---|---|---|---|
| | GLOVE | | |
| | | Whole glove | |
| | | grey PU(white/black spandex/steel/high performance polyethylene/polyester/nylon) palm | |
| | | grey PU(white/black spandex/steel/high performance polyethylene/polyester/nylon) palm | |
| | | grey PU(white/black spandex/steel/high performance polyethylene/polyester/nylon) palm | |
| | | white/black spandex/steel/high performance polyethylene/polyester/nylon back | |
| | | white/black spandex/steel/high performance polyethylene/polyester/nylon/elastic cuff | |


230301329

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08 March 2023

3. GLOVE/

Whole glove

| | Method | Client Requirement | Unit | Result | Conformity |
|---|---|---|---|---|---|
| ▲ 4.2. Dimethylformamide (DMF/DMFo/DMFa) | EN 16778: 2016 | | | | Pass |
| Dimethylformamide | | | mg/kg | 18.5 | |
| Dimethylformamide (2) | | | mg/kg | 26.2 | |
| Dimethylformamide - average | | <1000 | mg/kg | 22.4 | |
| (+) 5.2. Dexterity | ISO 21420: 2020 | | | | |
| Smallest diameter of pin fulfilling test condition | | | mm | 5.0 | |
| Smallest diameter of pin fulfilling test condition (2) | | | mm | 5.0 | |
| Smallest diameter of pin fulfilling test condition (3) | | | mm | 5.0 | |
| Smallest diameter of pin fulfilling test condition (4) | | | mm | 5.0 | |
| Performance level | | | | 5 | |

grey PU(white/black spandex/steel/high performance polyethylene/polyester/nylon) palm

| | Method | Client Requirement | Unit | Result | Conformity |
|---|---|---|---|---|---|
| (+) 4.1. Abrasion resistance: 2016 | EN 388:2016 + A1:2018 | | | | |
| used consumables - abrasive | | | | Klingspor PL31B Grit 180 | |
| used consumables - adhesive | | | | 3M Scotch | |
| Number of cycles at the hole detection | | | | >8000 | |
| Number of cycles at the hole detection (2) | | | | >8000 | |
| Number of cycles at the hole detection (3) | | | | >8000 | |
| Number of cycles at the hole detection (4) | | | | >8000 | |
| Performance level | | | | 4 | |
| (+) 4.1. Cut resistance: 2016 | EN 388:2016 + A1:2018 | | | | |
| Deviation from the test method | | | | No | |
| used consumables - canvas | | | | LEM 6 | |
| used consumables - blade | | | | OLFA RB45 | |
| C1 | | | | 1.0 | |
| T1 | | | | 60.0 | |

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| | Method | Client Requirement | Unit | Result | Conformity |
|---|---|---|---|---|---|
| 1C1 | | | | 11.3 | |
| I1 | | | | 10.8 | |
| C2 | | | | 1.2 | |
| T2 | | | | 60.0 | |
| 1C2 | | | | 12.8 | |
| I2 | | | | 9.6 | |
| C3 | | | | 1.2 | |
| T3 | | | | 60.0 | |
| 1C3 | | | | 11.8 | |
| I3 | | | | 10.2 | |
| C4 | | | | 0.8 | |
| T4 | | | | 60.0 | |
| 1C4 | | | | 9.4 | |
| I4 | | | | 12.8 | |
| C5 | | | | 0.8 | |
| T5 | | | | 60.0 | |
| 1C5 | | | | 10.4 | |
| I5 | | | | 11.7 | |
| Mean value of test piece 1 | | | | 11.0 | |
| C1 bis | | | | 1.2 | |
| T1 bis | | | | 60.0 | |
| 2C1bis | | | | 10.6 | |
| I1 bis | | | | 11.2 | |
| C2 bis | | | | 1.2 | |
| T2 bis | | | | 60.0 | |
| 2C2bis | | | | 11.7 | |
| I2 bis | | | | 10.3 | |
| C3 bis | | | | 1.3 | |
| T3 bis | | | | 60.0 | |
| 2C3bis | | | | 11.7 | |
| I3 bis | | | | 10.2 | |
| C4 bis | | | | 1.3 | |
| T4 bis | | | | 60.0 | |
| 2C4bis | | | | 9.3 | |

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| | Method | Client Requirement | Unit | Result | Conformity |
|---|---|---|---|---|---|
| I4 bis | | | | 12.3 | |
| C5 bis | | | | 1.3 | |
| T5 bis | | | | 60.0 | |
| 2C5bis | | | | 11.3 | |
| I5 bis | | | | 10.5 | |
| Mean value of test piece 2 | | | | 10.9 | |
| Considered value | | | | 10.9 | |
| Performance level | | | | 4 | |
| Observation | | | | First sequence Cn+1 higher than 3xCn, switch to EN13997 | |
| (+) **4.1. Tear strength resistance: 2016** | EN 388:2016 + A1:2016 | | | | |
| Tear strength | | | N | >75 | |
| Tear strength (2) | | | N | >75 | |
| Tear strength (3) | | | N | >75 | |
| Tear strength (4) | | | N | >75 | |
| Performance level | | | | 4 | |
| (+) **4.1. Puncture resistance: 2016** | EN 388:2016 + A1:2016 | | | | |
| Puncture resistance | | | N | 160 | |
| Puncture resistance (2) | | | N | 152 | |
| Puncture resistance (3) | | | N | 183 | |
| Puncture resistance (4) | | | N | 195 | |
| Performance level | | | | 4 | |

**grey PU(white/black spandex/steel/high performance polyethylene/polyester/nylon) palm**

| | Method | Client Requirement | Unit | Result | Conformity |
|---|---|---|---|---|---|
| (+) **5.1.1. Cutting resistance TDM** | ASTM F2992 /F2992M - 15 | | | | |
| Correction factor of the sharp edge of the blade with the neoprene | | | | 0.97 | |
| Load for a distance of 20 mm cut | | | g | 3000 | |
| Performance level | | | | Level A5 | |

**grey PU(white/black spandex/steel/high performance polyethylene/polyester/nylon) palm**

| | | | | | |
|---|---|---|---|---|---|

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| | Method | Client Requirement | Unit | Result | Conformity |
|---|---|---|---|---|---|
| (+) **4.2. pH - Textile (KCl solution)** | ISO 3071:2020 | | | | Pass |
| pH value | | 3.5< - <9.5 | | 7.8 | |
| ▲ **4.2. Polycyclic Aromatic Hydrocarbons (8)** | ISO 16190:2021 | | | | Pass |
| Benzo(a)anthracene | | <1 | mg/kg | <0.2 | |
| Chrysene | | <1 | mg/kg | <0.2 | |
| Benzo(b)fluoranthene/ Benz[e]acephenanthrylene | | <1 | mg/kg | <0.2 | |
| Benzo(k)fluoranthene | | <1 | mg/kg | <0.2 | |
| Benzo(a)pyrene/ Benzo[def]chrysene | | <1 | mg/kg | <0.2 | |
| Dibenzo(a,h)anthracene | | <1 | mg/kg | <0.2 | |
| Benzo(e)pyrene | | <1 | mg/kg | <0.2 | |
| Benzo@fluoranthene | | <1 | mg/kg | <0.2 | |
| (+) **XRF screening** | ASTM F2617 – 15 | | | | Pass |
| Cd (Cadmium) | | <100 | ppm | <100 | |
| **XRF screening (Tin)** | ASTM F2617 – 15 | | | | Pass |
| Sn (Tin) | | <150 | ppm | <150 | |
| **Phthalates** | ISO 16181-1:2021 | | | | Pass |
| BBP . Butyl benzyl phthalate | | <0.1 | % | <0.0020 | |
| DBP . Di-butyl phthalate | | <0.1 | % | <0.0020 | |
| DEHP . Di-(2-ethylhexyl) phthalate | | <0.1 | % | <0.0020 | |
| DIBP . Di-iso-butyl phthalate | | <0.1 | % | <0.0020 | |

white/black spandex/steel/high performance polyethylene/polyester/nylon back

| | Method | Client Requirement | Unit | Result | Conformity |
|---|---|---|---|---|---|
| (+) **4.2. pH - Textile (KCl solution)** | ISO 3071:2020 | | | | Pass |
| pH value | | 3.5< - <9.5 | | 8.2 | |
| **4.2. Aromatic amines derived from azo colorants** | ISO 14362-1:2017 (combined extraction) | | | | Pass |
| Accessible with fibre extraction | | <30 | mg/kg | <5 | |
| Accessible without fibre extraction | | <30 | mg/kg | <5 | |

white/black spandex/steel/high performance polyethylene/polyester/nylon/elastic cuff

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| | Method | Client Requirement | Unit | Result | Conformity |
|---|---|---|---|---|---|
| (+) 4.2. pH - Textile (KCl solution) | ISO 3071:2020 | | | | Pass |
| pH value | | 3.5< - <9.5 | | 8.3 | |
| 4.2. Aromatic amines derived from azo colorants | ISO 14362-1:2017 (combined extraction) | | | | Pass |
| Accessible with fibre extraction | | <30 | mg/kg | <5 | |
| Accessible without fibre extraction | | <30 | mg/kg | <5 | |

**END OF TEST REPORT**

(+)CNAS accreditation

▲: The test was carried out by external accredited laboratory under their accreditation scope.

Unless otherwise specified, the physical test items in this report performed in CTC Shanghai lab were conditioned and tested in the environment of T 23±2°C / RH 50±4%.

**Table of Performance Level for Glove**

| Test Item | Performance Level | | | | | |
|---|---|---|---|---|---|---|
| | 0## | 1 | 2 | 3 | 4 | 5 |
| **Abrasion Resistance (EN 388)** Number of cycles (minimum) | <100 | 100 | 500 | 2000 | 8000 | — |
| **Blade Cut Resistance (EN 388)** Index (I) (minimum) | <1.2 | 1.2 | 2.5 | 5.0 | 10.0 | 20.0 |
| **Tear Resistance (EN 388)** Force (N) (minimum) | <10 | 10 | 25 | 50 | 75 | — |
| **Puncture Resistance (EN 388)** Force (N) (minimum) | <20 | 20 | 60 | 100 | 150 | — |
| **Finger dexterity (EN ISO 21420)** Smallest diameter of pin fulfilling test conditions (mm) | — | 11.0 | 9.5 | 8.0 | 6.5 | 5.0 |

## Performance level 0 means the glove falls below the minimum performance level for the given individual hazard

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**Classification Table for Cut Resistance (ANSI-ISEA 105)**

| Level | Weight (grams) needed to cut through material with 20 mm of blade travel |
|---|---|
| A1 | >=200 |
| A2 | >=500 |
| A3 | >=1000 |
| A4 | >=1500 |
| A5 | >=2200 |
| A6 | >=3000 |
| A7 | >=4000 |
| A8 | >=5000 |
| A9 | >=6000 |

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