



UHMWPE fiber is also called Ultra-high Molecular Weight PE Fiber, high strength high modulus PE fiber or high oriented PE fiber. The fiber is an excellent thermoplastic materials. Together with the carbon fiber and aramid fiber, it is titled as one of the three major high-tech fiber in the world.



CHARACTERISTICS OF FIBER

UHMWPE fiber has excellent characteristics such as high strength, high strength high modulus, low density, abrasion and impact resistance, reagent durability, high hydrophobic, biocompatibility and anti-UV, etc. The product also shows good characteristics in resistance to (sea) water, moisture, mildew, fatigue durability and long flexing life, etc.

APPLICATION AREAS

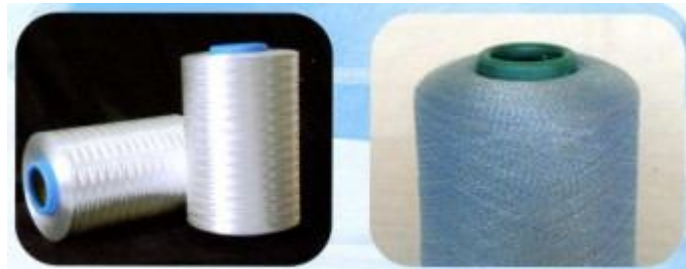
Base on its highest strength and modulus among high performance fibers, UHMWPE fiber has been widely used in the field of safety, protection, aviation, spaceflight, military equipments, auto manufacturing, ship building and sports, etc.

Spinning to produce Ultra-high Molecular Weight PE Fiber ("UHMWPE"). The Company, with self-owned intellectual property rights, is supported by state Eleven Five-Year Plan. The products are widely applied in the fields of **defense and police equipments, warships and vessels, offshore oil platforms, pelagic fishery and labor protection, etc.**





PRODUCTS LIST



ITEM	SPECIFICATION	TRADEMARK	ADVANTAGE	APPLICATION
Yarn	Fine denier	LY200/184	High strength & high modulus, light weight, UV resistance, acid & alkali resistance, organic solvents resistance	Leisure ropes & nets, anti-cut fabric, bullet-proof fabric and fishing line
	Medium denier	LY400/230 LY400/364 LY600/460 LY800/690		
	Thick denier	LY1000/920 LY1200/920 LY1500/1380 LY2200/2070		Marine rope& nets, anti-cut fabric, bullet-proof fabric
	Special thick denier	LY3000/2760		
Products	Covered yarn	YHBF400 YHBF405 YHBF500	Soft hand-feel, light weight, moisture absorption, permeability, anti-cut	Anti-cut gloves
	Plain woven fabric	YHPW125 YHPW220 YHPW310	Smooth fabric surface, soft hand-feel, tear resistance, cut resistance	Anti-cut and bullet-proof materials, industrial fabric
	Unidirectional fabric	YHUD130 YHUD150	Compact and smooth fabric surface, soft texture, water resistance, moisture resistance good bullet-proof effect	Bullet-proof clothes, bulletproof helmet, impact resistance composite material
	Gloves	YHST400 YHST500	Abrasion resistance, anti-cut, soft hand, soft hand-feel, moisture absorption and permeability	Labor protection



BULLET-PROOF AREA

Because of its excellent properties, the UHKWPE fiber is the perfect material for bullet-proof products. After being produced into unidirectional fabric, various bullet-proof products can be made, including bullet-proof clothes, bullet-proof helmets, anti explosion equipments and armor plates, etc. The bullet-proof products are tested by Military of Public Security and Test Center of Bulletproof Equipment of China Ordnance Industry, conforming to GA-141-2010 standard of Police Bulletproof clothes of Military of Public Security.

PRODUCT ADVANTAGES

- ✦ High strength and modulus, super properties of moisture absorption and permeability, anti-cut
- ✦ Soft texture, light weight
- ✦ Water resistance, moisture resistance, chemical corrosion resistance and UV radiation resistance

MAIN SPECIFICATION:

800D, 1000D, 1500D





ROPES & NETS AREA

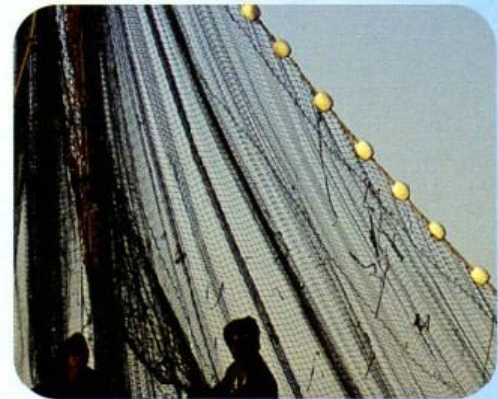
UHMWPE Ropes & nets mainly used in leisure sports, marine shipping industry, pelagic fishery, offshore oil platforms and land engineering (towage, rigging, safety nets, oil-drilling ropes and fishing line etc.).

PRODUCT ADVANTAGES

- ✦ High breaking strength, light weight, high modulus
- ✦ Abrasion resistance, corrosion resistance and UV light induced aging resistance
- ✦ Hauling resistance of UHMWPE fishnet is 40% lower than ordinary fishnet, enabling lower fishnet breakage and improve fish-catching efficiency.

MAIN SPECIFICATION:

200D, 400D, 800D, 1000D, 1200D, 1500D, 2200D, 3000D





ANTI-CUT AREA

UHMWPE fiber, with excellent properties of abrasion and cut resistance, can be used to produce anti-cut fabrics can be used to produce anti-cut gloves, anti-cut bags and sport & casual clothes. Anti-cut covered yarn can be used to produce anti-cut gloves of a variety of protective levels which widely used in labor protection of many industries.

PRODUCT ADVANTAGES

- ✦ Products made from anti-cut material have properties of anti-abrasion, anti-tear and anti-puncture
- ✦ Soft hand-feel, super properties of moisture absorption and permeability, comfortable and flexible for wearing
- ✦ Products have long life benefiting from excellent weather resistance property

MAIN SPECIFICATION:

200D, 400D, 500D, 600D, 1000D





COVER YARN

UHMWPE fiber cover with other fibers can be used to produce anti-cut gloves and other fabrics. There are different anti-cut levels of UHMWPE cover yarn: anti-cut levels 3, anti-cut level 4 and anti-cut level 5 which are meet the standard of EN338 of European standard for the industrial protective gloves.

PRODUCT ADVANTAGES

- ✦ Soft hand-feel, super properties of moisture absorption and permeability
- ✦ Abrasion resistance, tear resistance, tear resistance, cut resistance

MAIN SPECIFICATION:

YHBF200, YHBF400, YHBF405, YHBF500





PLAIN WOVEN FABRIC

The UHMWPE Woven Fabric is made from UHMWPE fiber by special technology.

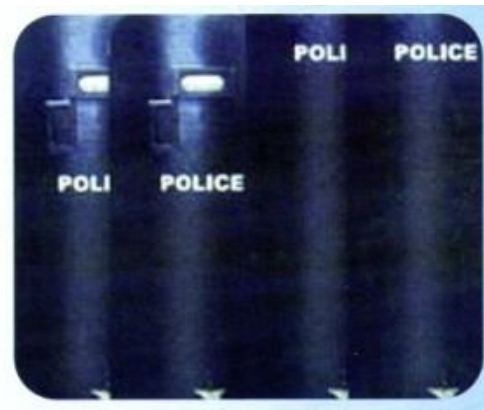
The fabric can be used to produce many kinds of anti-cut materials (anti-cut gloves, clothes and bags), tear and abrasion resistant materials (sports & protective clothes & helmets, bullet-proof helmets, bullet-proof PE plates and industrial fabrics, etc.), structural reinforcement material and other reinforced composite materials.

PRODUCT ADVANTAGES

- ✦ Smooth fabric surface, soft hand-feel, few fabric defect
- ✦ Light weight, tear resistance, abrasion resistance, cut resistance
- ✦ Acid & alkali resistance, organic solvents resistance, UV resistance

MAIN SPECIFICATION:

YHPW125, YHPW220, YHPW310





UNIDIRECTIONAL FABRIC

The UHMWPE fabric is made from UHMWPE fiber and resin. The fabric is used to produce bullet clothes, bulletproof helmets, explosion-proof products, protective armor plates and other impact-resistant composite materials. The product is tested by Military of Public Security and Test Center of Bulletproof Equipment of China Ordnance Industry which is conforming to GA-141-2012 standard of Police Bulletproof clothes of Military of Public Security.

PRODUCT ADVANTAGES

- ✦ Even, compact and smooth fabric surface
- ✦ Soft texture, low density
- ✦ Water resistance, moisture resistance, chemical corrosion resistance and UV radiation resistance

MAIN SPECIFICATION:

YHUD130, YHUD150





ANTI-CUT GLOVES

The covered yarn mainly made of UHMWPE fiber could be knitted by computer controlling and coated with resin to produce anti-cut gloves. Anti-cut gloves made from UHMWPE yarn can be divided into anti-cut level 3, anti-cut level 4 and anti-cut level 5 according to EN388 standard. The anti-cut gloves can provide labor protection in mechanical processing, machine, drilling, drilling and oil extraction, packing and logistics, construction, automobile manufacturing and marine vessel industries, etc.

PRODUCT ADVANTAGES

- ✦ Abrasion resistance, tear resistance, cut resistance
- ✦ Soft hand-feel, super properties of moisture absorption and permeability, comfortable and flexible for wearing
- ✦ Life is 4-6 times of ordinary yarn gloves and canvas gloves
- ✦ Abrasion resistance property is 70 times of cotton yarn gloves according to EN388 standard.

MAIN SPECIFICATION:

YHST400, YHST500





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