

UHMWPE  
**YUHWA HIDEN U010 PE500**

**Features and Uses**

Application	U(V)HMWPE / UHMWPE (UHMWPE)
Features	Excellent Property Spectrum, High Impact Strength, High Wear Resistance
Uses	Diverse Application (Compression Molding, Ram Extrusion. etc)

**Properties**

Items	Specification	Unit	Test Method
Average Mv ( $10^6$ g/mol)	0.6	-	KPIC Method
Density	0.95	g/cm <sup>3</sup>	ASTM D1505
Bulk Density	0.46	g/cm <sup>3</sup>	ISO 60
Avg. Particle Size	125	μm	KPIC Method
Tensile Strength at Yield	>170	kg/cm <sup>2</sup>	ASTM D638
Elongation at Break	>300	%	ASTM D638
Hardness	66	Shore D	ASTM D2240
Impact Strength (Izod with Notch)	No Break	kg <sub>r</sub> cm/cm	ASTM D256
Charpy Impact Strength (Double Notched)	25	kJ/m <sup>2</sup>	ISO 11542-2
Abrasion Resistance	250	U050=100	ISO 15527
Melting Point	135	°C	ASTM D3418
Heat Deflection Temperature	79	°C	ASTM D648

※ Above data are intended to serve as guides only, and are not sales specification limits.

**Contact Info.**

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