



UHMWPE

YUHWA HIDEN U010 PE500

Features
and Uses

Properties

Application	UHMWPE			
Features	Excellent Property Spectrum, High Impact Strength, High Wear Resistance			
Uses	Diverse Application (Compression Molding, Ram Extrusion. etc)			
Items		Specification	Unit	Test Method
Average Mv (10 ⁶ g/mol)		0.6	—	KPIC Method
Density		0.95	g/cm ³	ASTM D1505
Bulk Density		0.46	g/cm ³	ISO 60
Avg. Particle Size		125	μm	KPIC Method
Tensile Strength at Yield		>170	kgf/cm ²	ASTM D638
Elongation at Break		>300	%	ASTM D638
Hardness		66	Shore D	ASTM D2240
Impact Strength (Izod with Notch)		No Break	kgf cm/cm	ASTM D256
Charpy Impact Strength (Double Notched)		25	kJ/m ²	ISO 11542-2
Abrasion Resistance		250	U050=100	ISO 15527
Melting Point		135	°C	ASTM D3418
Heat Deflection Temperature		79	°C	ASTM D648