



UHMWPE

YUHWA HIDEN U050 H

Features
and Uses

Properties

Application	UHMWPE			
Features	Ultra High Impact Strength, Excellent Processibility, High Wear Resistance			
Uses	Products required high impact strength, Diverse Application (Compression Molding, Ram Extrusion. etc)			
Items		Specification	Unit	Test Method
Average Mv (10 ⁶ g/mol)		3. 7	—	KPIC Method
Density		0. 93	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		60	Shore D	ASTM D2240
Impact Strength (Izod with Notch)		No Break	kgf cm/cm	ASTM D256
Charpy Impact Strength (Double Notched)		200	kJ/m ²	ISO 11542-2
Abrasion Resistance		105	U050=100	ISO 15527
Melting Point		133	℃	ASTM D3418