



UHMWPE

YUHWA HIDEN U090

Features
and Uses

Properties

Application	UHMWPE			
Features	Good property, Processibility balance, Higher wear resistance than U070			
Uses	Compression Molding, Ram Extrusion, Battery Separators			
Items		Specification	Unit	Test Method
Average Mv (10 ⁶ g/mol)		9	—	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		50	Shore D	ASTM D2240
Impact Strength (Izod with Notch)		No Break	kgf·cm/cm	ASTM D256
Abrasion Resistance		80	U050=100	ISO 15527
Melting Point		135	℃	ASTM D3418
Heat Deflection Temperature		79	℃	ASTM D648