

UHMWPE

YUHWA HIDEN U050

Features
and Uses

Properties

Application	UHMWPE		
Features	Good property, Processibility balance, Higher wear resistance than U010		
Uses	Compression Molding, Ram Extrusion, Battery Separators		
Items	Specification	Unit	Test Method
Average Mv (10⁶ g/mol)	5	-	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	62	Shore D	ASTM D2240
Impact Strength (Izod with Notch)	No Break	kgf cm/cm	ASTM D256
Abrasion Resistance	100	U050=100	ISO 15527
Melting Point	135	°C	ASTM D3418
Heat Deflection Temperature	79	°C	ASTM D648