

UHMWPE
YUHWA HIDEN U050 F

Features
and Uses

Properties

Application	UHMWPE			
Features	Good property, Processibility balance, Higher wear resistance than U010			
Uses	Ultra high-strength fibers			
	Items	Specification	Unit	Test Method
	Average Mv (10⁶ g/mol)	5.5	-	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
	Charpy Impact Strength (Double Notched)	70	kJ/m ²	ISO 11542-2
	Abrasion Resistance	100	U050=100	ISO 15527
	Melting Point	135	°C	ASTM D3418
	Heat Deflection Temperature	79	°C	ASTM D648