

UHMWPE

YUHWA HIDEN U050 F

Features
and Uses

Properties

Contact
Info.

Application	UHMWPE			
Features	Good property, Processibility balance, Higher wear resistance than U010			
Uses	Ultra high-strength fibers			
Items		Specification	Unit	Test Method
Average Mv (10 ⁶ 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	℃	ASTM D3418
Heat Deflection Temperature		79	℃	ASTM D648
※ Above data are intended to serve as guides only, and are not sales specification limits.				
Division	Team in charge	TEL	FAX	e-mail
International Trade	KPICC	82-2-3706-0844, 0849	82-2-3706-0893, 0894	trade@kpicc.com
Technical Service	Marketing Support Team	82-2-2122-1537	82-2-2122-1519	H15106@kpic.co.kr