


KOREA PETROCHEMICAL IND.CO.,LTD

U(V)HMWPE **U050**
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Classification : U(V)HMWPE UHMWPE grade

Attributes : Good property, Processibility balance, Higher wear resistance than U030

Applications : Compression Molding, Ram Extrusion, Battery Separators

Documents & Certificates

Spec Sheet :  [kpic_spec_U050_en\(1\).pdf](#)

MSDS :  [kpic_msds_U050_en\(1\).pdf](#)

FDA :  [FDA Request](#)

RoHS :  [kpic_RoHS_U050_20111219.PDF](#)

Properties

ITEM (TERM)	VALUE	UNIT	TEST METHOD
Average Mv (10 ⁶ g/mol)	5	-	KPIC Method
Density	0.93	g/cm ³	ASTM D1505
Bulk Density	0.45	g/cm ³	ISO 60
Avg. Particle Size	120	μm	KPIC Method
Tensile Strength at Yield	>170	kg _f /cm ²	ASTM D638
Elongation at Break	>300	%	ASTM D638
Hardness (Rockwell)	62	Shore D	ASTM D785
Impact Strength (Izod with Notch)	No Break	kg _f cm/cm	ASTM D256
Abrasion Resistance	100	U050=100	ISO 15527
Melting Point	135	°C	ASTM D3418
Heat Deflection Temperature	79	°C	ASTM D648
The values given above should only be used as a guide and should not be considered as a specification or guarantee.			
The values are dependent on part geometry and fabrication conditions.			