

HIDEN® U050

Ultra High Molecular Weight Polyethylene

YUHWK Korea Petrochemical Ind. Co., Ltd.

Message:

HIDEN® U050 is an Ultra High Molecular Weight Polyethylene material. It is available in Asia Pacific for compression molding or ram extrusion.

Important attributes of HIDEN® U050 are:

- RoHS Compliant
- Good Processability
- High Molecular Weight
- Wear Resistant

General Information			
Features	Good Processability		
	Good Wear Resistance		
	Ultra High Molecular Weight		
RoHS Compliance	RoHS Compliant		
Processing Method	Compression Molding		
	Ram Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.930	g/cm³	ASTM D1505
Apparent Density	0.45	g/cm³	ISO 60
Average Molecular Weight - 10^6 g/mol	5.00		Internal Method
Average Particle Size	120	µm	Internal Method
Abrasion Resistance	100		ISO 15527
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness ¹	62		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	> 16.7	MPa	ASTM D638
Tensile Elongation (Break)	> 300	%	ASTM D638
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	No Break		ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	79.0	°C	ASTM D648
Peak Melting Temperature	135	°C	ASTM D3418
NOTE			

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Recommended distributors for this material

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