

HIDEN® U050 F

Ultra High Molecular Weight Polyethylene

YUHWAKorea Petrochemical Ind. Co., Ltd.

Message:

HIDEN® U050 F is an Ultra High Molecular Weight Polyethylene material. It is available in Asia Pacific.

Important attributes of HIDEN® U050 F are:

RoHS Compliant

Good Processability

High Molecular Weight

Wear Resistant

Typical application of HIDEN® U050 F: Fabrics/Fibers

General Information			
Features	Good Processability		
	Good Strength		
	Good Wear Resistance		
	Ultra High Molecular Weight		
Uses	Fibers		
RoHS Compliance	RoHS Compliant		
Physical	Nominal Value	Unit	Test Method
Density	0.930	g/cm ³	ASTM D1505
Apparent Density	0.45	g/cm ³	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			

1. Shore D

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