

HIDEN® F600M

High Density Polyethylene

YUHWHA Korea Petrochemical Ind. Co., Ltd.

Message:

HIDEN® F600M is a High Density Polyethylene material. It is available in Asia Pacific.

Important attributes of HIDEN® F600M are:

Good Tear Strength

Good Weather Resistance

High Stiffness

Typical applications include:

Agricultural

Film

Food Contact Applications

General Information			
Features	Good Tear Strength		
	Good Weather Resistance		
	High Stiffness		
Uses	Agricultural Applications		
	Film		
Agency Ratings	FDA Food Contact, Unspecified Rating		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density	0.957	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.035	g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.5 to 2.5	%	Internal Method
Water Absorption (Equilibrium)	< 0.010	%	ASTM D570
Environmental Stress-Cracking Resistance ¹	> 1000	hr	ASTM D1693B
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	47		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	39.2	MPa	ASTM D638
Tensile Elongation (Break)	> 500	%	ASTM D638
Flexural Modulus	981	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	> 490	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	62.0	°C	ASTM D648
Brittleness Temperature	< -70.0	°C	ASTM D746

Vicat Softening Temperature	123	°C	ASTM D1525
Peak Melting Temperature	134	°C	ASTM D3418

NOTE

1. 10%

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