

HiFill® HDPE MM40

High Density Polyethylene

Techmer Engineered Solutions

Message:

HiFill® HDPE MM40 is a High Density Polyethylene product filled with 40% mica. It can be processed by injection molding and is available in North America. Primary characteristic: chemically coupled.

General Information			
Filler / Reinforcement	Mica,40% Filler by Weight		
Features	Chemically Coupled		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.29	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.40	%	ASTM D955
Water Absorption (24 hr)	0.050	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	112		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	33.1	MPa	ASTM D638
Tensile Elongation (Break)	5.0	%	ASTM D638
Flexural Modulus	5170	MPa	ASTM D790
Flexural Strength	42.7	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	85	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	143	°C	
1.8 MPa, Unannealed	116	°C	
CLTE - Flow	3.4E-5	cm/cm/°C	ASTM D696

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Recommended distributors for this material

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