

Plastics Group Polifil® M-40 40% Mica-Reinforced Polypropylene

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene with 40% Mica Filler

Material Notes:

Polifil® M series compounds are homopolymer polypropylene resins reinforced with mica. They combine an improved range of high-stiffness values with low mold shrinkage. These compounds are used in large area broad span applications where high modulus values are required and retained. Standard processing techniques are applicable. Information provided by The Plastics Group.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plastics-Group-Polifil-M-40-40-Mica-Reinforced-Polypropylene.php

Physical Properties	Metric	English	Comments
Density	1.23 g/cc	0.0444 lb/in ³	ASTM D792
Filler Content	40 %	40 %	ASTM D2584
Linear Mold Shrinkage	0.0080 cm/cm @Thickness 1.59 mm	0.0080 in/in @Thickness 0.0625 in	ASTM D955
Melt Flow	8.0 - 12 g/10 min	8.0 - 12 g/10 min	230/2.16; May be specified; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	97	97	ASTM D785
Tensile Strength at Break	30.8 MPa	4460 psi	ASTM D638
Flexural Modulus	5.17 GPa	750 ksi	Tangent; ASTM D790
Izod Impact, Notched	0.470 J/cm	0.880 ft-lb/in	At 73°F; ASTM D256
Izod Impact, Unnotched	2.62 J/cm	4.90 ft-lb/in	At 73°F; ASTM D256
Gardner Impact	0.655 J	0.483 ft-lb	ASTM D3029

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	127 °C	260 °F	ASTM D648

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