

Plastics Group Polifil® RMC-40 40% Calcium Carbonate-Reinforced Polypropylene, High Impact

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene with 40% Calcium Carbonate (CaCO₃) Filler

Material Notes:

Polifil® RMC series compounds are high impact polypropylenes reinforced with fine particle size calcium carbonate. In addition to the highest impact possible, they possess good stiffness, heat aging resistance, solvent resistance, surface quality, and good resistance to environmental stress-cracking. Applications: Automotive Appliances Electrical components Housewares Various utility products 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-RMC-40-40-Calcium-Carbonate-Reinforced-Polypropylene-High-Impact.php

Physical Properties	Metric	English	Comments
Density	1.24 g/cc	0.0448 lb/in ³	ASTM D792
Filler Content	40 %	40 %	ASTM D2584
Linear Mold Shrinkage	0.011 cm/cm @Thickness 1.59 mm	0.011 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	96	96	ASTM D785
Tensile Strength at Break	24.1 MPa	3500 psi	ASTM D638
Flexural Modulus	2.41 GPa	350 ksi	Tangent; ASTM D790
Izod Impact, Notched	0.747 J/cm	1.40 ft-lb/in	At 73°F; ASTM D256
Izod Impact, Unnotched	NB	NB	At 73°F; ASTM D256
Gardner Impact	5.42 J	4.00 ft-lb	ASTM D3029

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	113 °C	235 °F	ASTM D648

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