

Plastics Group Polifil® C-10 10% Calcium Carbonate-Reinforced Polypropylene

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene with 10% Calcium Carbonate (CaCO₃) Filler

Material Notes:

Polifil® C series compounds are homopolymer polypropylene resins reinforced with fine particle size calcium carbonate. They combine high impact with stiffness, heat aging, good colorability, resistance to environmental stress-cracking, good surface and low mold shrinkage. Applications: Appliances Electrical components Housewares Toys Automotive 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-C-10-10-Calcium-Carbonate-Reinforced-Polypropylene.php

Physical Properties	Metric	English	Comments
Density	0.980 g/cc	0.0354 lb/in ³	ASTM D792
Filler Content	10 %	10 %	ASTM D2584
Linear Mold Shrinkage	0.012 cm/cm @Thickness 1.59 mm	0.012 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	29.6 MPa	4300 psi	ASTM D638
Flexural Modulus	1.79 GPa	260 ksi	Tangent; ASTM D790
Izod Impact, Notched	0.267 J/cm	0.500 ft-lb/in	At 73°F; ASTM D256
Izod Impact, Unnotched	4.27 J/cm	8.00 ft-lb/in	At 73°F; ASTM D256
Gardner Impact	0.780 J	0.575 ft-lb	ASTM D3029

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	93.3 °C	200 °F	ASTM D648

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