

Plastics Group Polifil® C-30 30% Calcium Carbonate-Reinforced Polypropylene

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene with 30% 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-30-30-Calcium-Carbonate-Reinforced-Polypropylene.php

Physical Properties	Metric	English	Comments
Density	1.15 g/cc	0.0415 lb/in ³	ASTM D792
Filler Content	30 %	30 %	ASTM D2584
Linear Mold Shrinkage	0.0090 cm/cm @Thickness 1.59 mm	0.0090 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	98	98	ASTM D785
Tensile Strength at Break	25.5 MPa	3700 psi	ASTM D638
Flexural Modulus	2.07 GPa	300 ksi	Tangent; ASTM D790
Izod Impact, Notched	0.464 J/cm	0.870 ft-lb/in	At 73°F; ASTM D256
Izod Impact, Unnotched	8.54 J/cm	16.0 ft-lb/in	At 73°F; ASTM D256
Gardner Impact	1.24 J	0.917 ft-lb	ASTM D3029

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	104 °C	220 °F	ASTM D648

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