

**Plastics Group Polifil® C-40 40% Calcium Carbonate-Reinforced Polypropylene**

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene with 40% 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-40-40-Calcium-Carbonate-Reinforced-Polypropylene.php](http://www.lookpolymers.com/polymer_Plastics-Group-Polifil-C-40-40-Calcium-Carbonate-Reinforced-Polypropylene.php)

Physical Properties	Metric	English	Comments
Density	1.24 g/cc	0.0448 lb/in <sup>3</sup>	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	23.4 MPa	3400 psi	ASTM D638
Flexural Modulus	2.21 GPa	320 ksi	Tangent; ASTM D790
Izod Impact, Notched	0.534 J/cm	1.00 ft-lb/in	At 73°F; ASTM D256
Izod Impact, Unnotched	10.7 J/cm	20.0 ft-lb/in	At 73°F; ASTM D256
Gardner Impact	1.468 J	1.083 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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