

Plastics Group Polifil® T-40 40% Talc-Reinforced Polypropylene

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

Material Notes:

Polifil® T series compounds are homopolymer polypropylene resins reinforced with asbestos-free talc. They possess high flex modulus, high deflection temperature, good chemical resistance and colorability, low shrinkage and yield maximum stiffness combined with characteristic impact. Applications: Automotive (underhood) applications Major appliances Electrical goods Housewares 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-T-40-40-Talc-Reinforced-Polypropylene.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	0.0080 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	33.8 MPa	4900 psi	ASTM D638
Flexural Modulus	2.76 GPa	400 ksi	Tangent; ASTM D790
Izod Impact, Notched	0.267 J/cm	0.500 ft-lb/in	At 73°F; ASTM D256
Izod Impact, Unnotched	2.40 J/cm	4.50 ft-lb/in	At 73°F; ASTM D256
Gardner Impact	0.565 J	0.417 ft-lb	ASTM D3029

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	138 °C	280 °F	ASTM D648

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