

Plastics Group Polifil® 71MR Mineral-Reinforced Nylon 6/6 (DAM)

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

Polifil® GFN/MRN 6/6 reinforced series of compounds offer superior strength, rigidity and creep resistance. Glass fibers provide excellent thermal and dimensional stability while maintaining good heat and chemical resistance. Applications: Bike components Fuel caps Automotive components 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-71MR-Mineral-Reinforced-Nylon-66-DAM.php

Physical Properties	Metric	English	Comments
Density	1.50 g/cc	0.0542 lb/in ³	ASTM D792
Water Absorption	0.60 %	0.60 %	24 hours; ASTM D570
Linear Mold Shrinkage	0.0065 cm/cm @Thickness 3.17 mm	0.0065 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	88.3 MPa	12800 psi	ASTM D638
Elongation at Break	5.0 %	5.0 %	ASTM D638
Flexural Strength	138 MPa	20000 psi	ASTM D790
Flexural Modulus	6.55 GPa	950 ksi	Tangent; ASTM D790
Izod Impact, Notched	0.587 J/cm	1.10 ft-lb/in	At 73°F; ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	260 °C	500 °F	ASTM D789
Deflection Temperature at 0.46 MPa (66 psi)	245 °C	473 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	225 °C	437 °F	ASTM D648

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