Plastics Group Polifil® 89MRGFHS Glass Fiber and Mineral Reinforced Nylon 6 (DAM)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Glass/Mineral Reinforced

Material Notes:

Polifil® GFN/MRN 6 reinforced series of compounds provide good heat and dimensional stability and offer extended or continuous stability under high temperatures. These have been found useful in industrial clamp components as well as bearings. 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-89MRGFHS-Glass-Fiber-and-Mineral-Reinforced-Nylon-6-DAM.php

Physical Properties	Metric	English	Comments
Density	1.48 g/cc	0.0535 lb/in³	ASTM D792
Water Absorption	0.90 %	0.90 %	24 hours; ASTM D570
Linear Mold Shrinkage	0.010 cm/cm @Thickness 3.17 mm	0.010 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	121	121	ASTM D785
Tensile Strength at Break	117 MPa	17000 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Flexural Modulus	6.55 GPa	950 ksi	Tangent; ASTM D790
Izod Impact, Notched	0.427 J/cm	0.800 ft-lb/in	At 73°F; ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	218 °C	425 °F	ASTM D789
Deflection Temperature at 0.46 MPa (66 psi)	216 °C	420 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	199 °C	390 °F	ASTM D648

Electrical Properties	Metric	English	Comments
Dielectric Constant	3.7 @Frequency 1e+6 Hz	3.7 @Frequency 1e+6 Hz	ASTM D150
Dielectric Strength	13.4 kV/mm	340 kV/in	ASTM D149

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