

## Plastics Group Polifil® 82MR Mineral-Reinforced Nylon 6 (DAM)

Category : Polymer , Thermoplastic , Nylon , Nylon 6

### 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-82MR-Mineral-Reinforced-Nylon-6-DAM.php](http://www.lookpolymers.com/polymer_Plastics-Group-Polifil-82MR-Mineral-Reinforced-Nylon-6-DAM.php)

Physical Properties	Metric	English	Comments
Density	1.45 g/cc	0.0524 lb/in <sup>3</sup>	ASTM D792

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	82.7 MPa	12000 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Flexural Modulus	5.17 GPa	750 ksi	Tangent; ASTM D790
Izod Impact, Notched	1.07 J/cm	2.00 ft-lb/in	At 73°F; ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	213 °C	415 °F	ASTM D789
Deflection Temperature at 1.8 MPa (264 psi)	120 °C	248 °F	ASTM D648

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