

**Plastics Group Polifil® 930L-33GF Glass Fiber-Reinforced Nylon 6 (DAM)**

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 40% Glass Fiber Filled

**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-930L-33GF-Glass-Fiber-Reinforced-Nylon-6-DAM.php](http://www.lookpolymers.com/polymer_Plastics-Group-Polifil-930L-33GF-Glass-Fiber-Reinforced-Nylon-6-DAM.php)

Physical Properties	Metric	English	Comments
Density	1.36 g/cc	0.0491 lb/in <sup>3</sup>	ASTM D792
Water Absorption	1.1 %	1.1 %	24 hours; ASTM D570
Linear Mold Shrinkage	0.0030 cm/cm @Thickness 3.17 mm	0.0030 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	119	119	ASTM D785
Tensile Strength at Break	159 MPa	23000 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Elongation at Yield	2.0 %	2.0 %	ASTM D638
Flexural Strength	207 MPa	30000 psi	ASTM D790
Flexural Modulus	8.27 GPa	1200 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	216 °C	420 °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)	210 °C	410 °F	ASTM D648

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