

**Plastics Group Polifil® 628-13GF Glass Fiber-Reinforced Nylon 6/6 (DAM)**

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 20% Glass Fiber Filled

**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-628-13GF-Glass-Fiber-Reinforced-Nylon-66-DAM.php](http://www.lookpolymers.com/polymer_Plastics-Group-Polifil-628-13GF-Glass-Fiber-Reinforced-Nylon-66-DAM.php)

Physical Properties	Metric	English	Comments
Density	1.22 g/cc	0.0441 lb/in <sup>3</sup>	ASTM D792
Water Absorption	1.1 %	1.1 %	24 hours; ASTM D570
Linear Mold Shrinkage	0.0050 cm/cm @Thickness 3.17 mm	0.0050 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	ASTM D785
Tensile Strength at Break	96.5 MPa	14000 psi	ASTM D638
Elongation at Break	5.0 %	5.0 %	ASTM D638
Flexural Strength	138 MPa	20000 psi	ASTM D790
Flexural Modulus	3.45 GPa	500 ksi	Tangent; ASTM D790
Izod Impact, Notched	0.534 J/cm	1.00 ft-lb/in	At 73°F; ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	255 °C	491 °F	ASTM D789
Deflection Temperature at 1.8 MPa (264 psi)	243 °C	470 °F	ASTM D648

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