

Plastics Group Polifil® 627L Nylon 6/6 (DAM)

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Unreinforced

Material Notes:

Polifil® NYLON 6/6 combines good abrasion and chemical resistance.Applications: ValvesBearingsBearing casesStandard 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-627L-Nylon-66-DAM.php

Physical Properties	Metric	English	Comments
Density	1.08 g/cc	0.0390 lb/in³	ASTM D792
Water Absorption	1.3 %	1.3 %	24 hours; ASTM D570
Linear Mold Shrinkage	0.015 cm/cm @Thickness 3.17 mm	0.015 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	113	113	ASTM D785
Tensile Strength at Break	46.9 MPa	6800 psi	ASTM D638
Elongation at Break	80 %	80 %	ASTM D638
Flexural Modulus	1.71 GPa	248 ksi	Tangent; ASTM D790
Izod Impact, Notched	8.54 J/cm	16.0 ft-lb/in	At 73°F; ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	254 °C	490 °F	ASTM D789
Deflection Temperature at 0.46 MPa (66 psi)	213 °C	415 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	68.3 °C	155 °F	ASTM D648

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.9 @Frequency 1e+6 Hz	2.9 @Frequency 1e+6 Hz	ASTM D150
Dielectric Strength	18.7 kV/mm	475 kV/in	ASTM D149

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