

Quadrant EPP Quadrant Nylon 105 Black

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

Order this product through the following link:

http://www.lookpolymers.com/polymer_Quadrant-EPP-Quadrant-Nylon-105-Black.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.16 g/cc	1.16 g/cc	ASTM D792
Water Absorption	0.30 %	0.30 %	IMMERSION, 24 HRS.; ASTM D570 2
Water Absorption at Saturation	7.0 %	7.0 %	ASTM D570 2

Mechanical Properties	Metric	English	Comments
Tensile Strength	89.6 MPa	13000 psi	ASTM D638
Elongation at Break	10 %	10 %	ASTM D638
Tensile Modulus	3.62 GPa	525 ksi	ASTM D638
Flexural Strength	110 MPa	16000 psi	ASTM D790
Flexural Modulus	3.24 GPa	470 ksi	ASTM D790
Compressive Strength	93.1 MPa @Strain 10.0 %, Temperature 22.8 °C	13500 psi @Strain 10.0 %, Temperature 73.0 °F	ASTM D695
Compressive Modulus	3.59 GPa	520 ksi	ASTM D695
Shear Strength	75.8 MPa	11000 psi	ASTM D732

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.245 W/m-K	1.70 BTU-in/hr-ft ² -°F	ASTM E1530-11
Melting Point	260 °C	500 °F	1.0e+6 Hz; ASTM D3418

Electrical Properties	Metric	English	Comments
Dielectric Constant	3.6	3.6	ASTM D150
Dissipation Factor	0.030	0.030	1.0e+6 Hz; ASTM D150

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