

Techmer ES HiFill® PA4/6 0206

Category : Polymer , Thermoplastic , Nylon , Nylon 46

Material Notes:

Availability: North America Forms: Pellets Features: High Specific Gravity and Thermally Conductive Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-PA46-0206.php

Physical Properties	Metric	English	Comments
Density	2.06 g/cc	0.0744 lb/in ³	ASTM D792
Water Absorption	0.10 % @Time 86400 sec	0.10 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.015 cm/cm @Thickness 3.17 mm	0.015 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	106 MPa	15400 psi	ASTM D638
Elongation at Break	2.0 %	2.0 %	ASTM D638
Flexural Strength	180 MPa	26100 psi	ASTM D790
Flexural Modulus	10.3 GPa	1500 ksi	ASTM D790
Izod Impact, Notched	0.400 J/cm @Thickness 3.17 mm	0.750 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	36.0 Åµm/m-Å°C	20.0 Åµin/in-Å°F	ASTM D696
Thermal Conductivity	0.980 W/m-K	6.80 BTU-in/hr-ftÅ²-Å°F	ASTM C177
Deflection Temperature at 0.46 MPa (66 psi)	291 Å°C	555 Å°F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	277 Å°C	530 Å°F	Unannealed; ASTM D648

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