

PolyOne Stat-Tech™ PK-30NCF/10T PEEK - 30% Nickel Coated Carbon Fiber - 10% PTFE (discontinued **)

Category : Polymer , Thermoplastic , Polyketone , Polyetheretherketone (PEEK)

Material Notes:

Data provided by PolyOne.

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Stat-Tech-PK-30NCF10T-PEEK-30-Nickel-Coated-Carbon-Fiber-10-PTFE-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.58 g/cc	1.58 g/cc	ASTM D792
Water Absorption	0.0010 % @Thickness 3.17 mm	0.0010 % @Thickness 0.125 in	24 hr. Immersion; ASTM D570
Linear Mold Shrinkage	0.0010 - 0.0020 cm/cm	0.0010 - 0.0020 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	176 MPa	25500 psi	Type 1 - Rigids, Yield, 0.2 in/min; ASTM D638
Elongation at Break	1.0 - 3.0 %	1.0 - 3.0 %	Type 1 - Rigids, 0.2 in/min; ASTM D638
Tensile Modulus	11.7 GPa	1700 ksi	Type 1 - Rigids, 0.2 in/min; ASTM D638
Flexural Strength	228 MPa	33000 psi	ASTM D790
Flexural Modulus	11.7 GPa	1700 ksi	ASTM D790
Izod Impact, Notched	0.747 J/cm @Thickness 6.35 mm, Temperature 23.0 °C	1.40 ft-lb/in @Thickness 0.250 in, Temperature 73.4 °F	Method A, Injection Molded; ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	282 °C	540 °F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	271 °C	520 °F	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.0 - 10 ohm-cm	1.0 - 10 ohm-cm	ASTM D257
Surface Resistivity per Square	1.0 - 10 ohm	1.0 - 10 ohm	ASTM D257

Shielding Effectiveness	60 - 70 dB	60 - 70 dB	3,000 MHz: PolyOne Internal
Electrical Properties	Metric	English	Comments
Processing Properties	Metric	English	Comments
Melt Temperature	399 - 427 °C	750 - 800 °F	Molding

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