

PolyOne Lubri-Tech™ PI-30CF/15T Polyetherimide (PEI), Carbon Fiber Reinforced, PTFE Lubricated (discontinued)

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

Description/Features: Carbon Fiber Reinforced PTFE Lubricated PolyOne First Choice Information provided by PolyOne Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Lubri-Tech-PI-30CF15T-Polyetherimide-PEI-Carbon-Fiber-Reinforced-PTFE-Lubricated-nbspdiscontinued.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.495 g/cc	1.495 g/cc	ASTM D792
Water Absorption	0.12 %	0.12 %	24 hr. Immersion; ASTM D570
Linear Mold Shrinkage	0.0015 - 0.0020 cm/cm	0.0015 - 0.0020 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	207 MPa	30000 psi	Type 1 - Rigids, 0.2 in/min; ASTM D638
Elongation at Break	5.0 %	5.0 %	Type 1 - Rigids, 0.2 in/min; ASTM D638
Tensile Modulus	13.8 GPa	2000 ksi	Type 1 - Rigids, 0.2 in/min; ASTM D638
Flexural Strength	276 MPa	40000 psi	ASTM D790
Flexural Modulus	13.1 GPa	1900 ksi	ASTM D790
Izod Impact, Notched	1.33 J/cm @Thickness 6.35 mm, Temperature 23.0 °C	2.50 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)	216 °C	420 °F	Annealed, 0.125 in bars; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	210 °C	410 °F	Annealed, 0.125 in bars; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	10 - 1000 ohm-cm	10 - 1000 ohm-cm	ASTM D257
Surface Resistivity per Square	10 - 1000 ohm	10 - 1000 ohm	ASTM D257

Processing Properties	Metric	English	Comments
Melt Temperature	360 - 388 °C	680 - 730 °F	Molding
Mold Temperature	135 - 149 °C	275 - 300 °F	
Drying Temperature	135 - 149 °C	275 - 300 °F	
Dry Time	2 hour	2 hour	

Descriptive Properties	Value	Comments
Product Form	Pellets	

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