

LNP Konduit® OTF-202-10 Polyphenylene Sulfide, Carbon Fiber Reinforcement (discontinued **)

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS)

Material Notes:

Features: Electrically Conductive, Thermally Conductive
Forms: Pellets
Processing Method: Injection Molding
Information provided by LNP, a GE Plastics Company. This data sheet is labeled Discontinued; however many LNP grades are still active under new names instituted after the SABIC purchase.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LNP-Konduit-OTF-202-10-Polyphenylene-Sulfide-Carbon-Fiber-Reinforcement-nbspdiscontinued.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.74 g/cc	1.74 g/cc	Method A; ASTM D792
Density	1.74 g/cc	0.0629 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.0020 - 0.0050 cm/cm	0.0020 - 0.0050 in/in	ASTM D955
Linear Mold Shrinkage, Transverse	0.0047 cm/cm	0.0047 in/in	ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	143 MPa	20700 psi	ASTM D638
Elongation at Break	0.80 %	0.80 %	ASTM D638
Flexural Strength	200 MPa	29000 psi	ASTM D790
Flexural Modulus	41.4 GPa	6000 ksi	ASTM D790
Izod Impact, Notched	0.320 J/cm @Thickness 3.18 mm	0.599 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Unnotched	2.72 J/cm @Thickness 3.18 mm	5.10 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Notched (ISO)	3.60 kJ/m ²	1.71 ft-lb/in ²	ISO 180
Izod Impact, Unnotched (ISO)	11.7 kJ/m ²	5.57 ft-lb/in ²	ISO 180
Falling Dart Impact	3.60 J	2.66 ft-lb	ASTM D3763
Impact Test	3.60 J	2.66 ft-lb	Multi-Axial Instrumented Impact Energy; ISO 6603-2
Coefficient of Friction, Dynamic	0.25	0.25	vs. Steel - @ 40 psi, 50 ft/min, tested in accordance with LNP WI-0687; ASTM D1894

Mechanical Properties <small>Mechanical Properties, Static</small>	Metric	English	Comments <small>vs. Steel @ 40 psi, tested in accordance with LNP WI-0687, ASTM D1894</small>
K (wear) Factor	8.06 x 10 ⁻⁸ mm ³ /N-M	4.00 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	40psi, 50ft/min; tested in accordance with LNP WI-0687

Thermal Properties	Metric	English	Comments
Thermal Conductivity	2.20 W/m-K	15.3 BTU-in/hr-ft ² -°F	Tested in accordance with ASTM F433; ASTM C177
Deflection Temperature at 1.8 MPa (264 psi)	272 °C	522 °F	Unannealed; ASTM D648
Flammability, UL94	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	

Electrical Properties	Metric	English	Comments
Surface Resistance	100 ohm	100 ohm	also tested with ASTM D4496; ASTM D648

Processing Properties	Metric	English	Comments
Melt Temperature	316 - 321 °C	601 - 610 °F	
Mold Temperature	135 - 163 °C	275 - 325 °F	
Drying Temperature	121 - 149 °C	250 - 300 °F	
Dry Time	4 hour	4 hour	
Back Pressure	0.172 - 0.345 MPa	24.9 - 50.0 psi	

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