

SABIC Innovative Plastics LNP KONDUIT OTF2AXXP PPS (Asia Pacific)

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS)

Material Notes:

LNP* Konduit* OTF2AXXP is a compound based on Polyphenylene Sulfide resin containing Glass Fiber, Thermal Carbon Fiber. Added features of this material include: Thermally Conductive, Electrically Conductive.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-KONDUIT-OTF2AXXP-PPS-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.74 g/cc	0.0629 lb/in ³	ASTM D792
	1.74 g/cc	0.0629 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0020 cm/cm	0.0020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0020 cm/cm	0.0020 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0047 cm/cm	0.0047 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	109 MPa	15800 psi	ISO 527
	143 MPa	20700 psi	ASTM D638
Elongation at Break	0.20 %	0.20 %	ISO 527
	0.80 %	0.80 %	ASTM D638
Tensile Modulus	51.83 GPa	7517 ksi	1 mm/min; ISO 527
Flexural Strength	199 MPa	28900 psi	ASTM D790
Flexural Modulus	41.36 GPa	5999 ksi	ASTM D790
Izod Impact, Notched	0.320 J/cm	0.599 ft-lb/in	ASTM D256
Izod Impact, Unnotched	2.72 J/cm	5.10 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	3.00 kJ/m ²	1.43 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	11.0 kJ/m ²	5.23 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	3.00 J	2.21 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763

Mechanical Properties	Metric	English	Comments
Coefficient of Friction, Dynamic	0.25	0.25	ASTM D3702 Modified
Coefficient of Friction, Static	0.34	0.34	ASTM D3702 Modified
K (wear) Factor	8.06 x 10 ⁻⁸ mm ³ /N-M	4.00 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
Thermal Conductivity	2.20 W/m-K	15.3 BTU-in/hr-ft ² -°F	ASTM E 1530
Deflection Temperature at 1.8 MPa (264 psi)	272 °C @Thickness 3.20 mm	522 °F @Thickness 0.126 in	unannealed; ASTM D648
Flammability, UL94	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	UL 94 by SABIC-IP

Electrical Properties	Metric	English	Comments
Surface Resistance	100 ohm	100 ohm	ASTM D257

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