

SABIC Innovative Plastics LNP KONDUIT OTF2B PPS - Linear

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS)

Material Notes:

LNP KONDUIT* OTF2B is a compound based on PPS - Linear resin containing 10% Glass Fiber, 55% Proprietary Thermal Filler. Added features of this material include: Thermally Conductive.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-KONDUIT-OTF2B-PPS-Linear.php

Physical Properties	Metric	English	Comments
Density	2.20 g/cc	0.0795 lb/in ³	ISO 1183
	2.208 g/cc	0.07977 lb/in ³	ASTM D792
Linear Mold Shrinkage, Flow	0.0045 cm/cm	0.0045 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0050 cm/cm	0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0070 cm/cm	0.0070 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0071 cm/cm	0.0071 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	83.0 MPa	12000 psi	ASTM D638
	84.0 MPa	12200 psi	ISO 527
Elongation at Break	0.80 %	0.80 %	ISO 527
	0.90 %	0.90 %	ASTM D638
Tensile Modulus	16.25 GPa	2357 ksi	1 mm/min; ISO 527
	16.37 GPa	2374 ksi	50 mm/min; ASTM D638
Flexural Strength	136 MPa	19700 psi	ASTM D790
	137 MPa	19900 psi	ISO 178
Flexural Modulus	14.85 GPa	2154 ksi	ISO 178
	15.61 GPa	2264 ksi	ASTM D790

Izod Impact, Notched Mechanical Properties	0.160 J/cm Metric	0.300 ft-lb/in English	ASTM D256 Comments
Izod Impact, Unnotched	1.70 J/cm	3.18 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	4.00 kJ/m ²	1.90 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	14.0 kJ/m ²	6.66 ft-lb/in ²	80*10*4; ISO 180/1U
Coefficient of Friction, Dynamic	0.51	0.51	ASTM D3702 Modified
Coefficient of Friction, Static	0.52	0.52	ASTM D3702 Modified
K (wear) Factor	8342 x 10 ⁻⁸ mm ³ /N-M	4141 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
Thermal Conductivity	1.05 W/m-K	7.29 BTU-in/hr-ft ² -°F	ASTM E 1530
Deflection Temperature at 0.46 MPa (66 psi)	264 °C	507 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
Deflection Temperature at 1.8 MPa (264 psi)	202 °C	396 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
Flammability, UL94	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	UL 94

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