

## SABIC Innovative Plastics LNP KONDUIT PTF2BXXX PA 6

Category : Polymer , Thermoplastic , Nylon , Nylon 6

### Material Notes:

LNP KONDUIT\* PTF2BXXX is a compound based on Nylon 6 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-PTF2BXXX-PA-6.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-KONDUIT-PTF2BXXX-PA-6.php)

Physical Properties	Metric	English	Comments
Specific Gravity	2.03 g/cc	2.03 g/cc	ASTM D792
Moisture Absorption	0.400 %	0.400 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0070 cm/cm	0.0070 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0072 cm/cm	0.0072 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0118 cm/cm	0.0118 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.012 cm/cm	0.012 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	81.0 MPa	11700 psi	ISO 527
	88.0 MPa	12800 psi	ASTM D638
Elongation at Break	2.4 %	2.4 %	ASTM D638
	2.8 %	2.8 %	ISO 527
Tensile Modulus	10.16 GPa	1474 ksi	1 mm/min; ISO 527
	10.75 GPa	1559 ksi	50 mm/min; ASTM D638
Flexural Strength	151 MPa	21900 psi	ISO 178
	168 MPa	24400 psi	ASTM D790
Flexural Modulus	9.65 GPa	1400 ksi	ISO 178
	10.61 GPa	1539 ksi	ASTM D790

Izod Impact Notched Mechanical Properties	0.320 J/cm Metric	0.599 ft-lb/in English	ASTM D256 Comments
Izod Impact, Unnotched	1.44 J/cm	2.70 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	4.00 kJ/m <sup>2</sup>	1.90 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	33.0 kJ/m <sup>2</sup>	15.7 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
Dart Drop, Total Energy	11.0 J	8.11 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Coefficient of Friction, Dynamic	0.48	0.48	ASTM D3702 Modified
Coefficient of Friction, Static	0.39	0.39	ASTM D3702 Modified
K (wear) Factor	2163 x 10 <sup>-8</sup> mm <sup>3</sup> /N-M	1074 x 10 <sup>-10</sup> in <sup>3</sup> - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
Thermal Conductivity	1.10 W/m-K	7.63 BTU-in/hr-ft <sup>2</sup> -°F	ASTM E 1530
Deflection Temperature at 1.8 MPa (264 psi)	174 °C	345 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	174 °C @Thickness 3.20 mm	345 °F @Thickness 0.126 in	unannealed; ASTM D648

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