

SABIC Innovative Plastics LNP KONDUIT ITF2B PA 6/12 (Asia Pacific)

Category : Polymer , Thermoplastic , Nylon , Nylon 612

Material Notes:

LNP* Konduit* ITF2B is a compound based on Nylon 6/12 resin containing Glass Fiber, 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-ITF2B-PA-612-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Moisture Absorption	0.120 %	0.120 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0089 cm/cm	0.0089 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0090 cm/cm	0.0090 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0145 cm/cm	0.0145 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.015 cm/cm	0.015 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	79.0 MPa	11500 psi	ASTM D638
	80.0 MPa	11600 psi	ISO 527
Elongation at Break	2.1 %	2.1 %	ASTM D638
	2.2 %	2.2 %	ISO 527
Tensile Modulus	9.98 GPa	1450 ksi	50 mm/min; ASTM D638
	10.2 GPa	1480 ksi	1 mm/min; ISO 527
Flexural Strength	144 MPa	20900 psi	ASTM D790
	144 MPa	20900 psi	ISO 178
Flexural Modulus	9.25 GPa	1340 ksi	ASTM D790
	9.50 GPa	1380 ksi	ISO 178
Izod Impact, Notched	0.320 J/cm	0.599 ft-lb/in	ASTM D256

Izod Impact, Unnotched Mechanical Properties	4.21 J/cm Metric	7.89 ft-lb/in English	ASTM D4812 Comments
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)	28.0 kJ/m ²	13.3 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	8.00 J	5.90 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	1.00 J	0.738 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
Thermal Conductivity	1.10 W/m-K	7.63 BTU-in/hr-ft ² -°F	ASTM E 1530
Deflection Temperature at 1.8 MPa (264 psi)	158 °C	316 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	167 °C @Thickness 3.20 mm	333 °F @Thickness 0.126 in	unannealed; ASTM D648

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