

SABIC Innovative Plastics LNP KONDUIT RTF2B PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP* KONDUIT* RTF2B is a compound based on Nylon 66 resin containing 10% Glass Fiber, 55% 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-RTF2B-PA-66.php

Physical Properties	Metric	English	Comments
Density	2.04 g/cc	0.0737 lb/in ³	ASTM D792
Moisture Absorption	0.300 %	0.300 %	50% RH, 24 hrs; ASTM D570
	0.300 %	0.300 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0090 cm/cm	0.0090 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0093 cm/cm	0.0093 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0146 cm/cm	0.0146 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	95.0 MPa	13800 psi	ISO 527
	101 MPa	14600 psi	ASTM D638
Elongation at Break	1.4 %	1.4 %	ASTM D638
	1.8 %	1.8 %	ISO 527
Tensile Modulus	11.92 GPa	1729 ksi	1 mm/min; ISO 527
	13.1 GPa	1900 ksi	50 mm/min; ASTM D638
Flexural Strength	174 MPa	25200 psi	ISO 178
	182 MPa	26400 psi	ASTM D790
Flexural Modulus	11.25 GPa	1632 ksi	ISO 178

Mechanical Properties	11.44 GPa Metric	1659 ksi English	ASTM D790 Comments
Izod Impact, Notched	0.370 J/cm	0.693 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.53 J/cm	8.49 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)	35.0 kJ/m ²	16.7 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	10.0 J	7.38 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
Thermal Conductivity	1.20 W/m-K	8.33 BTU-in/hr-ft ² -°F	ASTM E 1530
Deflection Temperature at 1.8 MPa (264 psi)	216 °C	421 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	226 °C @Thickness 3.20 mm	439 °F @Thickness 0.126 in	unannealed; ASTM D648

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