

SABIC Innovative Plastics LNP KONDUIT MT00E PP

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

LNP KONDUIT* MT00E is a compound based on Polypropylene resin containing 70% 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-MT00E-PP.php

Physical Properties	Metric	English	Comments
Density	1.94 g/cc	0.0701 lb/in ³	ISO 1183
	1.952 g/cc	0.07052 lb/in ³	ASTM D792
Linear Mold Shrinkage, Flow	0.0090 cm/cm	0.0090 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0095 cm/cm	0.0095 in/in	ISO 294
	@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	
	0.0074 cm/cm	0.0074 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	22.0 MPa	3190 psi	ASTM D638
	22.0 MPa	3190 psi	ISO 527
Elongation at Break	0.90 %	0.90 %	ISO 527
	1.0 %	1.0 %	ASTM D638
Tensile Modulus	8.65 GPa	1250 ksi	1 mm/min; ISO 527
	9.075 GPa	1316 ksi	50 mm/min; ASTM D638
Flexural Strength	44.0 MPa	6380 psi	ASTM D790
	44.0 MPa	6380 psi	ISO 178
Flexural Modulus	8.16 GPa	1180 ksi	ISO 178
Izod Impact, Notched	0.100 J/cm	0.187 ft-lb/in	ASTM D256

Izod Impact, Unnotched Mechanical Properties	0.740 J/cm Metric	1.39 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)	7.00 kJ/m ²	3.33 ft-lb/in ²	80*10*4; ISO 180/1U
Coefficient of Friction, Dynamic	0.43	0.43	ASTM D3702 Modified
Coefficient of Friction, Static	0.48	0.48	ASTM D3702 Modified
K (wear) Factor	2278 x 10 ⁻⁸ mm ³ /N-M	1131 x 10 ⁻¹⁰ in ³ - 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 ² -°F	ASTM E 1530
Deflection Temperature at 0.46 MPa (66 psi)	137 °C	279 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
Deflection Temperature at 1.8 MPa (264 psi)	103 °C	217 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af

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