

SABIC Innovative Plastics LNP KONDUIT PX11313 PA 6 (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

Thermally conductive mineral and glass fiber filled PA6, FR, compliant with ECO protocols, non-brominated, non-chlorinated

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-KONDUIT-PX11313-PA-6-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.79 g/cc	0.0647 lb/in ³	ISO 1183
Melt Index of Compound	21 g/10 min @Load 10.0 kg, Temperature 300 °C	21 g/10 min @Load 22.0 lb, Temperature 572 °F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	105 MPa	15200 psi	5 mm/min; ISO 527
Elongation at Break	1.3 %	1.3 %	5 mm/min; ISO 527
Tensile Modulus	15.0 GPa	2180 ksi	1 mm/min; ISO 527
Flexural Strength	160 MPa	23200 psi	2 mm/min; ISO 178
Flexural Modulus	13.0 GPa	1890 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	5.00 kJ/m ²	2.38 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	22.0 kJ/m ²	10.5 ft-lb/in ²	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	40.5 µm/m-°C @Temperature 40.0 - 120 °C	22.5 µin/in-°F @Temperature 104 - 248 °F	ASTM E 831
CTE, linear, Transverse to Flow	85.4 µm/m-°C @Temperature 40.0 - 120 °C	47.4 µin/in-°F @Temperature 104 - 248 °F	ASTM E 831
Thermal Conductivity	0.980 W/m-K	6.80 BTU-in/hr-ft ² -°F	through-plane, ø80*3mm discs; ISO 22007-2
	1.40 W/m-K	9.72 BTU-in/hr-ft ² -°F	through-plane, 10*10*3mm sample; ASTM E 1461-07
	1.80 W/m-K	12.5 BTU-in/hr-ft ² -°F	in-plane, ø25*0.4mm disc; ASTM E 1461-07

Thermal Properties	Metric	English	Comments
	2.33 W/m-K	16.3 B TU-in/hr-ft ² -°F	Flatw 80*10*4 sp=64mm; ISO 22007-2
Deflection Temperature at 1.8 MPa (264 psi)	210 °C	410 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
Flammability, UL94	V-0 @Thickness 0.800 mm	V-0 @Thickness 0.0315 in	UL 94

Electrical Properties	Metric	English	Comments
Dielectric Strength	>= 10.0 kV/mm @Thickness 1.00 mm	>= 254 kV/in @Thickness 0.0394 in	in oil; ASTM D149

Descriptive Properties	Value	Comments
Ball Pressure Test, 125°C +/- 2°C	PASSES	IEC 60695-10-2

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