

SABIC Innovative Plastics LNP KONDUIT PX11313 PA 6 (Asia Pacific)

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

Thermally conductive mineral filled PA6 FR compounding

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-KONDUIT-PX11313-PA-6-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.79 g/cc	0.0647 lb/in ³	ASTM D792
Water Absorption	0.23 % @Time 86400 sec	0.23 % @Time 24.0 hour	SABIC Method
Moisture Absorption	0.0400 %	0.0400 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0042 cm/cm @Time 86400 sec	0.0042 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.0058 cm/cm @Time 86400 sec	0.0058 in/in @Time 24.0 hour	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	98.0 MPa	14200 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	1.3 %	1.3 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	13.28 GPa	1926 ksi	5 mm/min; ASTM D638
Izod Impact, Notched	0.300 J/cm	0.562 ft-lb/in	ASTM D256
Izod Impact, Unnotched	3.26 J/cm	6.11 ft-lb/in	ASTM D4812
Izod Impact, Unnotched (ISO)	2.40 - 27.0 kJ/m ²	1.14 - 12.8 ft-lb/in ²	ISO R179

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

Thermal Properties	Metric	English	Comments
	1.80 W/m-K	12.5 BTU-in/hr-ft ² -°F	in-plane, 10*10*3mm sample; ASTM E 1461-07
	2.38 W/m-K	16.5 BTU-in/hr-ft ² -°F	in-plane, ø25*0.4mm disc; ASTM E 1461-07
	2.38 W/m-K	16.5 BTU-in/hr-ft ² -°F	in-plane, ø80*3mm discs; ISO 22007-2
Deflection Temperature at 1.8 MPa (264 psi)	215 °C @Thickness 6.40 mm	419 °F @Thickness 0.252 in	unannealed; ASTM D648
Flammability, UL94	V-0 @Thickness 0.800 mm	V-0 @Thickness 0.0315 in	UL 94
Glow Wire Test	750 °C	1380 °F	IEC 60695-2-13
	800 °C	1470 °F	IEC 60695-2-13
	960 °C @Thickness 1.00 - 3.00 mm	1760 °F @Thickness 0.0394 - 0.118 in	IEC 60695-2-12

Electrical Properties	Metric	English	Comments
Surface Resistance	>= 1.00e+15 ohm	>= 1.00e+15 ohm	ASTM D257
Dielectric Constant	4.84 @Frequency 1.00e+9 Hz	4.84 @Frequency 1.00e+9 Hz	ASTM ES 7-83
Dielectric Strength	>= 10.0 kV/mm @Thickness 1.00 mm	>= 254 kV/in @Thickness 0.0394 in	in oil; ASTM D149
Dissipation Factor	0.0099 @Frequency 1.10e+9 Hz	0.0099 @Frequency 1.10e+9 Hz	ASTM ES 7-83

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