

SABIC Innovative Plastics LNP KONDUIT PX11311 PA 6 (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

Thermally conductive mineral and glass fiber filled PA6 Eco-FR compound

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-KONDUIT-PX11311-PA-6-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.76 g/cc	0.0636 lb/in ³	ISO 1183

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	102 MPa	14800 psi	5 mm/min; ISO 527
Elongation at Break	1.5 %	1.5 %	5 mm/min; ISO 527
Tensile Modulus	12.5 GPa	1810 ksi	1 mm/min; ISO 527
Flexural Yield Strength	164 MPa	23800 psi	2 mm/min; ISO 178
Flexural Modulus	11.0 GPa	1600 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	3.00 kJ/m ²	1.43 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	30.8 µm/m-°C	17.1 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	34.6 µm/m-°C	19.2 µin/in-°F	ISO 11359-2
	@Temperature -30.0 - 80.0 °C	@Temperature -22.0 - 176 °F	
CTE, linear, Transverse to Flow	37.2 µm/m-°C	20.7 µin/in-°F	ISO 11359-2
	@Temperature 23.0 - 80.0 °C	@Temperature 73.4 - 176 °F	
	47.7 µm/m-°C	26.5 µin/in-°F	ASTM E 831
@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F		
	60.4 µm/m-°C	33.6 µin/in-°F	ISO 11359-2
	@Temperature -30.0 -	@Temperature -22.0 -	

Thermal Properties	80.0 °C Metric	176 °F English	Comments
	73.4 µm/m-°C	40.8 µin/in-°F	ISO 11359-2
	@Temperature 23.0 - 80.0 °C	@Temperature 73.4 - 176 °F	
Thermal Conductivity	1.10 W/m-K	7.63 BTU-in/hr-ft ² -°F	through-plane, ø80*3mm discs; ISO 22007-2
	1.30 W/m-K	9.02 BTU-in/hr-ft ² -°F	in-plane, ø80*3mm discs; ISO 22007-2
Deflection Temperature at 1.8 MPa (264 psi)	185 °C	365 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
Vicat Softening Point	208 °C	406 °F	Rate B/120; ISO 306
Flammability, UL94	V-0	V-0	UL 94
	@Thickness 1.00 mm	@Thickness 0.0394 in	

Electrical Properties	Metric	English	Comments
Surface Resistance	1.00e+16 ohm	1.00e+16 ohm	ASTM D257
Comparative Tracking Index	>= 600 V	>= 600 V	UL 746A
	600 V	600 V	IEC 60112

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