

SABIC Innovative Plastics LNP KONDUIT PX11311U PA 6 (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

Thermally conductive mineral and glass fiber filled PA6 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-PX11311U-PA-6-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.74 g/cc	0.0629 lb/in ³	ISO 1183

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	105 MPa	15200 psi	5 mm/min; ISO 527
Elongation at Break	1.7 %	1.7 %	5 mm/min; ISO 527
Tensile Modulus	12.5 GPa	1810 ksi	1 mm/min; ISO 527
Flexural Yield Strength	170 MPa	24700 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)	27.0 kJ/m ²	12.8 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	
	37.2 µm/m-°C	20.7 µin/in-°F	ISO 11359-2
	@Temperature 23.0 - 80.0 °C	@Temperature 73.4 - 176 °F	
CTE, linear, Transverse to Flow	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 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	40.8 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	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, $\varnothing 80\cdot 3\text{mm}$ discs; ISO 22007-2
	1.30 W/m-K	9.02 BTU-in/hr-ft ² -°F	in-plane, $\varnothing 80\cdot 3\text{mm}$ 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	205 °C	401 °F	Rate B/120; ISO 306
Flammability, UL94	V-0	V-0	UL 94 by SABIC-IP
	@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	$\geq 600\text{ V}$	$\geq 600\text{ V}$	UL 746A
	600 V	600 V	IEC 60112

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

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China