

SABIC Innovative Plastics LNP KONDUIT PX08322 PA 6 (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

Thermally conductive mineral filled PA6 non-halogen FR compound

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-KONDUIT-PX08322-PA-6-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.52 g/cc	0.0549 lb/in ³	ISO 1183
Water Absorption	0.39 % @Time 86400 sec	0.39 % @Time 24.0 hour	SABIC Method
Moisture Absorption	0.0600 %	0.0600 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0024 cm/cm @Time 86400 sec	0.0024 in/in @Time 24.0 hour	ISO 294
Linear Mold Shrinkage, Transverse	0.0028 cm/cm @Time 86400 sec	0.0028 in/in @Time 24.0 hour	ISO 294

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	45.0 MPa	6530 psi	5 mm/min; ISO 527
Elongation at Break	0.60 %	0.60 %	5 mm/min; ISO 527
Tensile Modulus	11.0 GPa	1600 ksi	1 mm/min; ISO 527
Flexural Strength	76.0 MPa	11000 psi	2 mm/min; ISO 178
Flexural Modulus	11.3 GPa	1640 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	2.00 kJ/m ²	0.952 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	5.00 kJ/m ²	2.38 ft-lb/in ²	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	25.3 µm/m-°C	14.1 µin/in-°F	ISO 11359-2
	@Temperature -30.0 - 80.0 °C	@Temperature -22.0 - 176 °F	
	29.9 µm/m-°C	16.6 µin/in-°F	ISO 11359-2
	@Temperature 23.0 -	@Temperature 73.4 -	

Thermal Properties	80.0 °C Metric	176 °F English	Comments
CTE, linear, Transverse to Flow	51.4 µm/m-°C	28.6 µin/in-°F	ISO 11359-2
	@Temperature -30.0 - 80.0 °C	@Temperature -22.0 - 176 °F	
	61.7 µm/m-°C	34.3 µin/in-°F	ISO 11359-2
	@Temperature 23.0 - 80.0 °C	@Temperature 73.4 - 176 °F	
Thermal Conductivity	0.920 W/m-K	6.38 BTU-in/hr-ft ² -°F	through-plane, ø80*3mm discs; ISO 22007-2
	2.10 W/m-K	14.6 BTU-in/hr-ft ² -°F	through-plane, 10*10*3mm sample; ASTM E 1461-07
	5.09 W/m-K	35.3 BTU-in/hr-ft ² -°F	in-plane, ø80*3mm discs; ISO 22007-2
	8.10 W/m-K	56.2 BTU-in/hr-ft ² -°F	in-plane, ø25*0.4mm disc; ASTM E 1461-07
Deflection Temperature at 1.8 MPa (264 psi)	165 °C	329 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
Flammability, UL94	V-0	V-0	UL 94
	@Thickness 1.20 mm	@Thickness 0.0472 in	
Glow Wire Test	825 °C	1520 °F	IEC 60695-2-13
	960 °C	1760 °F	IEC 60695-2-12
	@Thickness 1.00 mm	@Thickness 0.0394 in	

Electrical Properties	Metric	English	Comments
Surface Resistance	>= 1.00e+15 ohm	>= 1.00e+15 ohm	ASTM D257
Dielectric Constant	4.8	4.8	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	7.27	7.27	ASTM D150
	@Frequency 50.0 - 60.0 Hz	@Frequency 50.0 - 60.0 Hz	
Dielectric Strength	14.1 kV/mm	358 kV/in	in oil; ASTM D149
	@Thickness 1.00 mm	@Thickness 0.0394 in	
Dissipation Factor	0.043	0.043	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	0.083	0.083	

Electrical Properties	Metric @ Frequency 50.0 - 60.0 Hz	English @ Frequency 50.0 - 60.0 Hz	ASTM D150 Comments
Comparative Tracking Index	575 V	575 V	IEC 60112
Hot Wire Ignition, HWI	>= 120 sec	>= 120 sec	UL 746A
High Amp Arc Ignition, HAI	>= 120 arcs	>= 120 arcs	UL 746A

Descriptive Properties	Value	Comments
Ball Pressure Test, 125°C +/- 2°C	PASSES	IEC 60695-10-2
Water Immersion, Start F1 from 1mm onward	PASSES	UL 746C
	PASSES	UL 746C

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