

SABIC Innovative Plastics LNP KONDUIT OX11314 PPS (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS)

Material Notes:

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

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-KONDUIT-OX11314-PPS-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.91 g/cc	0.0690 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0026 cm/cm	0.0026 in/in	on Tensile Bar; SABIC Method
	0.0039 cm/cm @Time 86400 sec	0.0039 in/in @Time 24.0 hour	ISO 294
Linear Mold Shrinkage, Transverse	0.0041 cm/cm @Time 86400 sec	0.0041 in/in @Time 24.0 hour	ISO 294

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	50.0 MPa	7250 psi	5 mm/min; ISO 527
Elongation at Break	0.50 %	0.50 %	5 mm/min; ISO 527
Tensile Modulus	15.0 GPa	2180 ksi	1 mm/min; ISO 527
Flexural Yield Strength	75.0 MPa	10900 psi	2 mm/min; ISO 178
Flexural Modulus	15.5 GPa	2250 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)	6.00 kJ/m ²	2.86 ft-lb/in ²	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	20.0 µm/m-°C @Temperature -40.0 - 40.0 °C	11.1 µin/in-°F @Temperature -40.0 - 104 °F	ASTM E 831
	21.0 µm/m-°C @Temperature -30.0 - 80.0 °C	11.7 µin/in-°F @Temperature -22.0 - 176 °F	ISO 11359-2
	22.0 µm/m-°C	12.2 µin/in-°F	

Thermal Properties	Metric @Temperature 23.0 - 80.0 °C	English @Temperature 73.4 - 176 °F	ISO 11359-2 Comments
CTE, linear, Transverse to Flow	30.0 µm/m-°C	16.7 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	32.0 µm/m-°C	17.8 µin/in-°F	ISO 11359-2
	@Temperature -30.0 - 80.0 °C	@Temperature -22.0 - 176 °F	
	35.0 µm/m-°C	19.4 µin/in-°F	ISO 11359-2
	@Temperature 23.0 - 80.0 °C	@Temperature 73.4 - 176 °F	
Thermal Conductivity	0.750 W/m-K	5.20 BTU-in/hr-ft²-°F	through-plane, ø80*3mm discs; ISO 22007-2
	1.95 W/m-K	13.5 BTU-in/hr-ft²-°F	in-plane, ø80*3mm discs; ISO 22007-2
Deflection Temperature at 0.46 MPa (66 psi)	261 °C	502 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
Deflection Temperature at 1.8 MPa (264 psi)	211 °C	412 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
Vicat Softening Point	254 °C	489 °F	Rate B/120; ISO 306
Flammability, UL94	V-0	V-0	UL 94
	@Thickness 0.800 mm	@Thickness 0.0315 in	

Electrical Properties	Metric	English	Comments
Surface Resistance	1.00e+15 ohm	1.00e+15 ohm	ASTM D257
Hot Wire Ignition, HWI	>= 120 sec	>= 120 sec	UL 746A
High Amp Arc Ignition, HAI	60 - 120 arcs	60 - 120 arcs	UL 746A

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

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