

SABIC Innovative Plastics LNP KONDUIT OX11314 PPS (Asia Pacific)

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS)

Material Notes:

Thermally conductive mineral filled PPS FR compound

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-KONDUIT-OX11314-PPS-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.89 g/cc	0.0683 lb/in ³	ASTM D792
Water Absorption	0.10 % @Time 86400 sec	0.10 % @Time 24.0 hour	SABIC Method
Moisture Absorption	0.0300 %	0.0300 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0018 cm/cm @Time 86400 sec	0.0018 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.0024 cm/cm @Time 86400 sec	0.0024 in/in @Time 24.0 hour	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	45.0 MPa	6530 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	0.50 %	0.50 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	11.4 GPa	1650 ksi	5 mm/min; ASTM D638
Flexural Strength	47.0 MPa	6820 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	11.2 GPa	1620 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.210 J/cm	0.393 ft-lb/in	ASTM D256
Izod Impact, Unnotched	0.580 J/cm	1.09 ft-lb/in	ASTM D4812
Charpy Impact Unnotched	0.500 J/cm ²	2.38 ft-lb/in ²	ISO 179/2C
Charpy Impact, Notched	0.200 J/cm ²	0.952 ft-lb/in ²	ISO 179/2C

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	26.0 µm/m-°C @Temperature 40.0 - 120 °C	14.4 µin/in-°F @Temperature 104 - 248 °F	ASTM E 831

Thermal Properties	Metric	English	Comments
CTE, linear, Transverse to Flow	@Temperature 40.0 - 120 °C	@Temperature 104 - 248 °F	ASTM E 831
Specific Heat Capacity	1.44 J/g-°C	0.344 BTU/lb-°F	ASTM C351
Thermal Conductivity	0.900 W/m-K	6.25 BTU-in/hr-ft²-°F	through-plane, ø80*3mm discs; ISO 22007-2
	1.00 W/m-K	6.94 BTU-in/hr-ft²-°F	through-plane, 10*10*3mm sample; ASTM E 1461-07
	2.10 W/m-K	14.6 BTU-in/hr-ft²-°F	in-plane, ø25*0.4mm disc; ASTM E 1461-07
	2.22 W/m-K	15.4 BTU-in/hr-ft²-°F	in-plane, ø80*3mm discs; ISO 22007-2
Deflection Temperature at 1.8 MPa (264 psi)	191 °C	376 °F	unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Flammability, UL94	V-0	V-0	UL 94
	@Thickness 0.800 mm	@Thickness 0.0315 in	
Glow Wire Test	875 °C	1610 °F	IEC 60695-2-13
	960 °C	1760 °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 Strength	>= 5.00 kV/mm	>= 127 kV/in	in oil; ASTM D149
	@Thickness 1.00 mm	@Thickness 0.0394 in	
Comparative Tracking Index	600 V	600 V	IEC 60112
Hot Wire Ignition, HWI	>= 120 sec	>= 120 sec	UL 746A
High Amp Arc Ignition, HAI	60 - 120 arcs	60 - 120 arcs	UL 746A

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