

SABIC Innovative Plastics LNP KONDUIT PX10322 PA 6 (Asia Pacific)

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

Thermally conductive mineral filled PA6 FR compound, with through-plane and in-plane thermal conductivity of 1.7 W/(m*K) and 4.7 W/(m*K) respectively, conforming to ASTM E 1461 test standard.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-KONDUIT-PX10322-PA-6-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.47 g/cc	0.0531 lb/in ³	ASTM D792
Water Absorption	0.42 % @Time 86400 sec	0.42 % @Time 24.0 hour	SABIC Method
Moisture Absorption	0.0600 %	0.0600 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0029 cm/cm @Time 86400 sec	0.0029 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.0032 cm/cm @Time 86400 sec	0.0032 in/in @Time 24.0 hour	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	51.0 MPa	7400 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	0.80 %	0.80 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	10.53 GPa	1527 ksi	5 mm/min; ASTM D638
Flexural Strength	75.0 MPa	10900 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	10.5 GPa	1520 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.200 J/cm	0.375 ft-lb/in	ASTM D256
Izod Impact, Unnotched	1.04 J/cm	1.95 ft-lb/in	ASTM D4812

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	22.5 µm/m-°C @Temperature -40.0 - 40.0 °C	12.5 µin/in-°F @Temperature -40.0 - 104 °F	ASTM E 831
	25.7 µm/m-°C	14.3 µin/in-°F	ASTM E 831

Thermal Properties	Metric @Temperature 40.0 - 120 °C	English @Temperature 104 - 248 °F	Comments
CTE, linear, Transverse to Flow	38.0 µm/m-°C @Temperature -40.0 - 40.0 °C	21.1 µin/in-°F @Temperature -40.0 - 104 °F	ASTM E 831
	58.2 µm/m-°C @Temperature 40.0 - 120 °C	32.3 µin/in-°F @Temperature 104 - 248 °F	ASTM E 831
Specific Heat Capacity	1.72 J/g-°C	0.411 BTU/lb-°F	ASTM C351
Deflection Temperature at 1.8 MPa (264 psi)	183 °C @Thickness 6.40 mm	361 °F @Thickness 0.252 in	unannealed; ASTM D648
UL RTI, Electrical	140 °C	284 °F	UL 746B
UL RTI, Mechanical with Impact	120 °C	248 °F	UL 746B
UL RTI, Mechanical without Impact	140 °C	284 °F	UL 746B
Flammability, UL94	V-0 @Thickness 1.20 mm	V-0 @Thickness 0.0472 in	UL 94
Glow Wire Test	800 °C	1470 °F	IEC 60695-2-13
	960 °C @Thickness 1.00 mm	1760 °F @Thickness 0.0394 in	IEC 60695-2-12

Electrical Properties	Metric	English	Comments
Surface Resistance	>= 1.00e+13 ohm	>= 1.00e+13 ohm	ASTM D257
Dielectric Strength	11.0 kV/mm @Thickness 1.00 mm	279 kV/in @Thickness 0.0394 in	in oil; ASTM D149
Comparative Tracking Index	511 V	511 V	IEC 60112
Hot Wire Ignition, HWI	>= 120 sec	>= 120 sec	UL 746A
High Amp Arc Ignition, HAI	>= 120 arcs	>= 120 arcs	UL 746A

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