

SABIC Innovative Plastics LNP LUBRICOMP EX07305 PEI (Asia Pacific)

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

Polyetherimide reinforced with Glass fiber and PTFE for use in Burn-in Test Sockets (BiTS) Application

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-EX07305-PEI-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.506 g/cc	0.05441 lb/in ³	ASTM D792
	1.51 g/cc	0.0546 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0040 cm/cm	0.0040 in/in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0052 cm/cm	0.0052 in/in	SABIC Method

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	156 MPa	22600 psi	5 mm/min; ISO 527
	157 MPa	22800 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	1.2 %	1.2 %	5 mm/min; ISO 527
	3.0 %	3.0 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	8.54 GPa	1240 ksi	1 mm/min; ISO 527
	8.62 GPa	1250 ksi	50 mm/min; ASTM D638
Flexural Strength	201 MPa	29200 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Yield Strength	202 MPa	29300 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	6.42 GPa	931 ksi	1.3 mm/min, 50 mm span; ASTM D790
	7.21 GPa	1050 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.670 J/cm	1.26 ft-lb/in	ASTM D256
Izod Impact, Unnotched	3.29 J/cm	6.16 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	7.00 kJ/m ²	3.33 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	25.0 kJ/m ²	11.9 ft-lb/in ²	80*10*4; ISO 180/1U
Coefficient of Friction, Dynamic	0.52	0.52	ASTM D3702 Modified

Mechanical Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	14.1 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	7.83 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	ASTM E 831
CTE, linear, Transverse to Flow	50.7 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	28.2 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	ASTM E 831
Deflection Temperature at 1.8 MPa (264 psi)	206 $\text{Å}^\circ\text{C}$	403 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Af
	204 $\text{Å}^\circ\text{C}$ @Thickness 3.20 mm	399 $\text{Å}^\circ\text{F}$ @Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	7.60e+16 ohm-cm	7.60e+16 ohm-cm	ASTM D257
Surface Resistance	2.00e+13 ohm	2.00e+13 ohm	ASTM D257
Dielectric Constant	3.3 @Frequency 100000 Hz	3.3 @Frequency 100000 Hz	ASTM D150
Dielectric Strength	31.4 kV/mm @Thickness 1.60 mm	798 kV/in @Thickness 0.0630 in	in oil; ASTM D149
Dissipation Factor	0.0031 @Frequency 100000 Hz	0.0031 @Frequency 100000 Hz	ASTM D150

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