

SABIC Innovative Plastics LNP Lubricomp EFP36G PEI

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

LNP* EFP36G is a Polyetherimide base resin containing a Mixed Glass Fiber and PTFE/Silicone. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Lubricomp-EFP36G-PEI.php

Physical Properties	Metric	English	Comments
Density	1.59 g/cc	0.0574 lb/in ³	ISO 1183
	1.59 g/cc	0.0574 lb/in ³	ASTM D 792
Linear Mold Shrinkage, Flow	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0070 - 0.0090 cm/cm	0.0070 - 0.0090 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	96.0 MPa	13900 psi	5 mm/min; ISO 527
	107 MPa	15500 psi	Type I, 5 mm/min; ASTM D 638
Elongation at Break	1.7 %	1.7 %	5 mm/min; ISO 527
	2.2 %	2.2 %	Type I, 5 mm/min; ASTM D 638
Tensile Modulus	11.44 GPa	1659 ksi	50 mm/min; ASTM D 638
	11.76 GPa	1706 ksi	1 mm/min; ISO 527
Flexural Strength	161 MPa	23400 psi	1.3 mm/min, 50 mm span; ASTM D 790
	164 MPa	23800 psi	ISO 178
Flexural Modulus	8.45 GPa	1230 ksi	2 mm/min; ISO 178
	8.58 GPa	1240 ksi	1.3 mm/min, 50 mm span; ASTM D 790
Izod Impact, Notched	0.760 J/cm	1.42 ft-lb/in	ASTM D 256
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
	4.08 J/cm	7.64 ft-lb/in	

Izod Impact, Unnotched Mechanical Properties	@Temperature 23.0 Metric °C	@Temperature 73.4 °F English	ASTM D 4812 Comments
Izod Impact, Notched (ISO)	7.00 kJ/m ² @Temperature 23.0 °C	3.33 ft-lb/in ² @Temperature 73.4 °F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	30.0 kJ/m ² @Temperature 23.0 °C	14.3 ft-lb/in ² @Temperature 73.4 °F	80*10*4; ISO 180/1U
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603
	12.0 J @Temperature 23.0 °C	8.85 ft-lb @Temperature 73.4 °F	Instrumented Impact Total Energy; ASTM D 3763
Coefficient of Friction, Dynamic	0.49	0.49	ASTM D 3702 Modified
Coefficient of Friction, Static	0.60	0.60	ASTM D 3702 Modified
K (wear) Factor	119 x 10 ⁻⁸ mm ³ /N-M	59.0 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D 3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	39.0 Åµm/m-Å°C @Temperature -30.0 - 30.0 Å°C	21.7 Åµin/in-Å°F @Temperature -22.0 - 86.0 Å°F	ASTM D 696
CTE, linear, Transverse to Flow	22.0 Åµm/m-Å°C @Temperature -30.0 - 30.0 Å°C	12.2 Åµin/in-Å°F @Temperature -22.0 - 86.0 Å°F	ASTM D 696
Deflection Temperature at 0.46 MPa (66 psi)	204 Å°C	399 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	202 Å°C @Thickness 3.20 mm	396 Å°F @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	210 Å°C	410 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	209 Å°C @Thickness 3.20 mm	408 Å°F @Thickness 0.126 in	unannealed; ASTM D 648

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