

SABIC Innovative Plastics LNP LUBRICOMP EFL36 PEI (Asia Pacific)

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

LNP LUBRICOMP* EFL36 is a compound based on Polyetherimide resin containing Glass Fiber, PTFE. Added features of this material include: Internally Lubricated.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-EFL36-PEI-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.62 g/cc	0.0585 lb/in ³	ASTM D792
	1.62 g/cc	0.0585 lb/in ³	ISO 1183
Moisture Absorption	0.150 %	0.150 %	50% RH, 24 hrs; ASTM D570
	0.220 %	0.220 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0021 - 0.0024 cm/cm	0.0021 - 0.0024 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0035 - 0.0047 cm/cm	0.0035 - 0.0047 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	168 MPa	24400 psi	ISO 527
	175 MPa	25400 psi	ASTM D638
Elongation at Break	2.0 %	2.0 %	ASTM D638
	2.0 %	2.0 %	ISO 527
Tensile Modulus	11.18 GPa	1622 ksi	1 mm/min; ISO 527
	12.68 GPa	1839 ksi	50 mm/min; ASTM D638
Flexural Strength	248 MPa	36000 psi	ISO 178
	252 MPa	36500 psi	ASTM D790

Flexural Modulus Mechanical Properties	11.3 GPa Metric	1640 ksi English	ASTM D790 Comments
	11.39 GPa	1652 ksi	ISO 178
Izod Impact, Notched	1.22 J/cm	2.29 ft-lb/in	ASTM D256
Izod Impact, Unnotched	7.10 J/cm	13.3 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	13.0 kJ/m ²	6.19 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	46.0 kJ/m ²	21.9 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	10.0 J	7.38 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	3.00 J	2.21 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.45	0.45	ASTM D3702 Modified
Coefficient of Friction, Static	0.43	0.43	ASTM D3702 Modified
K (wear) Factor	70.5 x 10 ⁻⁸ mm ³ /N-M	35.0 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	39.6 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	22.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
	39.8 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	22.1 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
CTE, linear, Transverse to Flow	27.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	15.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 1.8 MPa (264 psi)	28.4 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	15.8 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 1.8 MPa (264 psi)	204 $\text{Å}^\circ\text{C}$	399 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Af
	202 $\text{Å}^\circ\text{C}$ @Thickness 3.20 mm	396 $\text{Å}^\circ\text{F}$ @Thickness 0.126 in	unannealed; ASTM D648

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