

SABIC Innovative Plastics LNP LUBRICOMP EFL36XXC PEI

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

LNP* Lubricomp* EFL36XXC is a compound based on Polyetherimide containing 30% Glass Fiber, 155 PTFE. Characteristics of this grade are: Internally Lubricated.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-EFL36XXC-PEI.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	
	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	
	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	5 mm/min; ISO 527
	175 MPa	25400 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.0 %	2.0 %	Type I, 5 mm/min; ASTM D638
	2.0 %	2.0 %	5 mm/min; 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	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	Metric ^a	English ^d	Comments ^b
	11.39 GPa	1652 ksi	2 mm/min; 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 @Temperature 23.0 Â°C	7.38 ft-lb @Temperature 73.4 Â°F	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	39.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	21.7 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	39.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	21.7 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
CTE, linear, Transverse to Flow	27.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	15.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	28.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	15.6 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
Deflection Temperature at 1.8 MPa (264 psi)	204 Â°C	399 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	202 Â°C @Thickness 3.20 mm	396 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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