

SABIC Innovative Plastics LNP LUBRICOMP EFL34HL PEI

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

LNP LUBRICOMP* EFL34HL is a compound based on Polyetherimide resin containing 20% Glass Fiber, 15% PTFE. Added features of this material include: Internally Lubricated, Low Extractable.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-EFL34HL-PEI.php

Physical Properties	Metric	English	Comments
Density	1.54 g/cc	0.0556 lb/in ³	ASTM D792
	1.54 g/cc	0.0556 lb/in ³	ISO 1183
Moisture Absorption	0.170 %	0.170 %	50% RH, 24 hrs; ASTM D570
	0.230 %	0.230 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0030 cm/cm	0.0030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0033 cm/cm	0.0033 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0060 cm/cm	0.0060 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0060 cm/cm	0.0060 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	113 MPa	16400 psi	ASTM D638
	113 MPa	16400 psi	ISO 527
Elongation at Break	2.2 %	2.2 %	ASTM D638
	2.2 %	2.2 %	ISO 527
Tensile Modulus	7.40 GPa	1070 ksi	1 mm/min; ISO 527
	7.58 GPa	1100 ksi	50 mm/min; ASTM D638
Flexural Strength	179 MPa	26000 psi	ASTM D790
	181 MPa	26300 psi	ISO 178

Flexural Modulus Mechanical Properties	7.51 GPa Metric	1090 ksi English	ASTM D790 Comments
	7.94 GPa	1150 ksi	ISO 178
Izod Impact, Notched	0.690 J/cm	1.29 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.80 J/cm	8.99 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	20.0 kJ/m ²	9.52 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	32.0 kJ/m ²	15.2 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	8.00 J	5.90 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	204 °C	399 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	203 °C	397 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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