

SABIC Innovative Plastics LNP LUBRICOMP ECL36 PEI

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

LNP* Lubricomp* ECL36 is a compound based on Polyetherimide resin containing 30% Carbon Fiber, 15% 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-ECL36-PEI.php

Physical Properties	Metric	English	Comments
Density	1.48 g/cc	0.0535 lb/in ³	ASTM D792
	1.50 g/cc	0.0542 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.00040 cm/cm	0.00040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0040 cm/cm	0.0040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	160 MPa	23200 psi	ISO 527
	179 MPa	26000 psi	ASTM D638
Elongation at Break	1.2 %	1.2 %	ISO 527
	1.7 %	1.7 %	ASTM D638
Tensile Modulus	21.6 GPa	3130 ksi	1 mm/min; ISO 527
Flexural Strength	210 MPa	30500 psi	ISO 178
	230 MPa	33400 psi	ASTM D790
Flexural Modulus	16.0 GPa	2320 ksi	ISO 178
	19.16 GPa	2779 ksi	ASTM D790
Izod Impact, Notched	0.420 J/cm	0.787 ft-lb/in	ASTM D256
Izod Impact, Unnotched	2.67 J/cm	5.00 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	5.00 kJ/m ²	2.38 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	18.0 kJ/m ²	8.57 ft-lb/in ²	80*10*4; ISO 180/1U
Coefficient of Friction, Dynamic	0.39	0.39	ASTM D3702 Modified

Mechanical Properties Static	Metric	English	Comments 12 Modified
K (wear) Factor	62.4 x 10 ⁻⁸ mm ³ /N-M	31.0 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	208 Â°C @Thickness 3.20 mm	406 Â°F @Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	10 - 1.00e+6 ohm	10 - 1.00e+6 ohm	ASTM D257

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