

LNP Lubricomp® EFL-4036 UFE Polyetherimide, Glass Fiber Reinforcement, PTFE Lubricant (discontinued **)

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

Features: LubricatedForms: PelletsProcessing Method: Injection MoldingInformation provided by LNP, a GE Plastics Company.This data sheet is labeled Discontinued; however many LNP grades are still active under new names instituted after the SABIC purchase.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LNP-Lubricomp-EFL-4036-UFE-Polyetherimide-Glass-Fiber-Reinforcement-PTFE-Lubricant-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.62 g/cc	1.62 g/cc	Method A; ASTM D792
Density	1.62 g/cc	0.0585 lb/in ³	ISO 1183
Water Absorption	0.10 %	0.10 %	at 24 hrs; ASTM D570
Linear Mold Shrinkage	0.0020 cm/cm	0.0020 in/in	ASTM D955
Linear Mold Shrinkage, Transverse	0.0050 cm/cm	0.0050 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	161 MPa	23400 psi	ASTM D638
Elongation at Break	2.1 %	2.1 %	ASTM D638
Tensile Modulus	12.2 GPa	1770 ksi	ASTM D638
Flexural Strength	234 MPa	33900 psi	ASTM D790
Flexural Modulus	11.1 GPa	1610 ksi	ASTM D790
Izod Impact, Notched	1.07 J/cm @Thickness 3.18 mm	2.00 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Unnotched	5.50 J/cm @Thickness 3.18 mm	10.3 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Notched (ISO)	17.4 kJ/m ²	8.28 ft-lb/in ²	ISO 180
Izod Impact, Unnotched (ISO)	43.6 kJ/m ²	20.7 ft-lb/in ²	ISO 180
Falling Dart Impact	9.60 J	7.08 ft-lb	ASTM D3763
Impact Test	3.12 J	2.30 ft-lb	Multi-Axial Instrumented Impact Energy; ISO 6603-2
vs. Steel - @ 40 psi, 50 ft/min, tested			

Coefficient of Friction, Dynamic Mechanical Properties	0.46 Metric	0.46 English	in accordance with LNP WI-0687; ASTM D1894
Coefficient of Friction, Static	0.43	0.43	vs. Steel @ 40 psi, tested in accordance with LNP WI-0687; ASTM D1894
K (wear) Factor	70.5 x 10 ⁻⁸ mm ³ /N-M	35.0 x 10 ⁻¹⁰ in ³ -min/ft- lb-hr	40psi, 50ft/min; tested in accordance with LNP WI-0687

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	205 °C	401 °F	Unannealed; ASTM D648

Processing Properties	Metric	English	Comments
Melt Temperature	360 - 366 °C	680 - 691 °F	
Mold Temperature	121 - 149 °C	250 - 300 °F	
Drying Temperature	121 - 149 °C	250 - 300 °F	
Dry Time	4 hour	4 hour	
Moisture Content	0.020 %	0.020 %	Suggested
Back Pressure	0.345 - 0.689 MPa	50.0 - 99.9 psi	

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