

LNP Lubricomp® EL-4030 Polyetherimide, PTFE Additive (discontinued **)

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

Features: Lubricated Forms: Pellets Processing Method: Injection Molding Information 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-EL-4030-Polyetherimide-PTFE-Additive-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.35 g/cc	1.35 g/cc	Method A; ASTM D792
Density	1.35 g/cc	0.0488 lb/in ³	ISO 1183
Water Absorption	0.20 %	0.20 %	at 24 hrs; ASTM D570
Linear Mold Shrinkage	0.0080 - 0.010 cm/cm	0.0080 - 0.010 in/in	ASTM D955
Linear Mold Shrinkage, Transverse	0.0090 - 0.011 cm/cm	0.0090 - 0.011 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	84.8 MPa	12300 psi	ASTM D638
Tensile Strength, Yield	88.3 MPa	12800 psi	ASTM D638
Elongation at Break	10 %	10 %	ASTM D638
Elongation at Yield	6.5 %	6.5 %	ASTM D638
Tensile Modulus	2.76 GPa	400 ksi	ASTM D638
Flexural Strength	131 MPa	19000 psi	ASTM D790
Flexural Modulus	2.90 GPa	421 ksi	ASTM D790
Izod Impact, Notched	0.694 J/cm @Thickness 3.18 mm	1.30 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Unnotched	7.47 J/cm @Thickness 3.18 mm	14.0 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Notched (ISO)	8.80 kJ/m ²	4.19 ft-lb/in ²	ISO 180
Izod Impact, Unnotched (ISO)	61.6 kJ/m ²	29.3 ft-lb/in ²	ISO 180
Falling Dart Impact	9.60 J	7.08 ft-lb	ASTM D3763
Impact Test	1.48 J	1.09 ft-lb	Multi-Axial Instrumented Impact Energy; ISO 6603-2

Mechanical Properties	Metric	English	Comments
Coefficient of Friction, Dynamic	0.30	0.30	vs. Steel @ 40 psi, 50 ft/min, tested in accordance with LNP WI-0687; ASTM D1894
Coefficient of Friction, Static	0.23	0.23	vs. Steel @ 40 psi, tested in accordance with LNP WI-0687; ASTM D1894
K (wear) Factor	214 x 10 ⁻⁸ mm ³ /N-M	106 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	40psi, 50ft/min; tested in accordance with LNP WI-0687

Thermal Properties	Metric	English	Comments
CTE, linear	47.0 μm/m-°C @Temperature 20.0 °C	26.1 μin/in-°F @Temperature 68.0 °F	TMA; ASTM E831
CTE, linear, Transverse to Flow	47.0 μm/m-°C @Temperature 20.0 °C	26.1 μin/in-°F @Temperature 68.0 °F	TMA; ASTM E831
Deflection Temperature at 1.8 MPa (264 psi)	182 °C	360 °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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