

LNP Lubricomp® FL-4410 Polyetherimide, Silicone Lubricant 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-FL-4410-Polyetherimide-Silicone-Lubricant-Additive-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.950 g/cc	0.950 g/cc	Method A; ASTM D792
Density	0.950 g/cc	0.0343 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.021 - 0.023 cm/cm	0.021 - 0.023 in/in	ASTM D955
Linear Mold Shrinkage, Transverse	0.016 - 0.017 cm/cm	0.016 - 0.017 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	26.9 MPa	3900 psi	ASTM D638
Elongation at Yield	0.70 %	0.70 %	ASTM D638
Tensile Modulus	0.758 GPa	110 ksi	ASTM D638
Flexural Strength	20.7 MPa	3000 psi	ASTM D790
Flexural Modulus	0.896 GPa	130 ksi	ASTM D790
Izod Impact, Notched	1.60 J/cm @Thickness 3.18 mm	3.00 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Unnotched	NB @Thickness 3.18 mm	NB @Thickness 0.125 in	ASTM D256
Izod Impact, Notched (ISO)	10.0 kJ/m ²	4.76 ft-lb/in ²	ISO 180
Izod Impact, Unnotched (ISO)	120 kJ/m ²	57.1 ft-lb/in ²	ISO 180
Falling Dart Impact	21.4 J	15.8 ft-lb	ASTM D3763
Impact Test	28.7 J	21.2 ft-lb	Multi-Axial Instrumented Impact Energy; ISO 6603-2
Coefficient of Friction, Dynamic	0.11	0.11	vs. Steel - @ 40 psi, 50 ft/min, tested in accordance with LNP WI-0687; ASTM D1894

Mechanical Properties Static	Metric	English	Comments
			vs. Steel @ 40 psi, tested in accordance with LNP WI-0687, ASTM D1894
K (wear) Factor	56.4 x 10 ⁻⁸ mm ³ /N-M	28.0 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	40psi, 50ft/min; tested in accordance with LNP WI-0687

Thermal Properties	Metric	English	Comments
CTE, linear	120 µm/m-°C	66.7 µin/in-°F	TMA; ASTM E831
	@Temperature 20.0 °C	@Temperature 68.0 °F	
CTE, linear, Transverse to Flow	130 µm/m-°C	72.2 µin/in-°F	TMA; ASTM E831
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 1.8 MPa (264 psi)	47.2 °C	117 °F	Unannealed; ASTM D648

Processing Properties	Metric	English	Comments
Melt Temperature	232 °C	450 °F	
Mold Temperature	37.8 - 51.7 °C	100 - 125 °F	
Drying Temperature	82.2 °C	180 °F	
Dry Time	4 hour	4 hour	
Back Pressure	0.172 - 0.345 MPa	24.9 - 50.0 psi	

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