

LNP Lubricomp® OFL-4036 Polyphenylene Sulfide, Glass Fiber Reinforced, PTFE Lubricant (discontinued **)

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS) , Polyphenylene Sulfide (PPS), PTFE/Glass-Fiber Filled

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-OFL-4036-Polyphenylene-Sulfide-Glass-Fiber-Reinforced-PTFE-Lubricant-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.69 g/cc	1.69 g/cc	Method A; ASTM D792
Density	1.69 g/cc	0.0611 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.0010 cm/cm	0.0010 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	145 MPa	21000 psi	ASTM D638
Tensile Strength, Yield	145 MPa	21000 psi	ASTM D638
Elongation at Break	1.7 %	1.7 %	ASTM D638
Elongation at Yield	1.7 %	1.7 %	ASTM D638
Tensile Modulus	12.3 GPa	1780 ksi	ASTM D638
Flexural Strength	200 MPa	29000 psi	ASTM D790
Flexural Modulus	11.0 GPa	1600 ksi	ASTM D790
Izod Impact, Notched	0.854 J/cm @Thickness 3.18 mm	1.60 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)	9.40 kJ/m ²	4.47 ft-lb/in ²	ISO 180
Izod Impact, Unnotched (ISO)	26.4 kJ/m ²	12.6 ft-lb/in ²	ISO 180
Falling Dart Impact	3.40 J	2.51 ft-lb	ASTM D3763
	1.97 J	1.45 ft-lb	Multi-Axial Instrumented Impact

Mechanical Properties	Metric	English	Comments
Coefficient of Friction, Dynamic	0.44	0.44	vs. Steel - @ 40 psi, 50 ft/min, tested in accordance with LNP WI-0687; ASTM D1894
Coefficient of Friction, Static	0.35	0.35	vs. Steel @ 40 psi, tested in accordance with LNP WI-0687; ASTM D1894
K (wear) Factor	66.5 x 10 ⁻⁸ mm ³ /N-M	33.0 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)	269 °C	516 °F	Unannealed; ASTM D648

Processing Properties	Metric	English	Comments
Melt Temperature	316 - 321 °C	601 - 610 °F	
Mold Temperature	135 - 163 °C	275 - 325 °F	
Drying Temperature	121 - 149 °C	250 - 300 °F	
Dry Time	4 hour	4 hour	
Back Pressure	0.172 - 0.345 MPa	24.9 - 50.0 psi	

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