

LNP Lubricomp® UFL-4036 HS Polyphthalamide, Glass Fiber Reinforced, PTFE Lubricant (discontinued **)

Category : Polymer , Thermoplastic , Polyphthalamide (PPA)

Material Notes:

Features: Heat Stabilized, 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-UFL-4036-HS-Polyphthalamide-Glass-Fiber-Reinforced-PTFE-Lubricant-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.55 g/cc	1.55 g/cc	Method A; ASTM D792
Density	1.55 g/cc	0.0560 lb/in ³	ISO 1183
Water Absorption	0.30 %	0.30 %	at 24 hrs; ASTM D570
Linear Mold Shrinkage	0.0010 - 0.0020 cm/cm	0.0010 - 0.0020 in/in	ASTM D955
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	197 MPa	28600 psi	ASTM D638
Tensile Strength, Yield	197 MPa	28600 psi	ASTM D638
Elongation at Break	2.5 %	2.5 %	ASTM D638
Elongation at Yield	2.5 %	2.5 %	ASTM D638
Tensile Modulus	12.4 GPa	1800 ksi	ASTM D638
Flexural Strength	276 MPa	40000 psi	ASTM D790
Flexural Modulus	10.8 GPa	1570 ksi	ASTM D790
Izod Impact, Notched	1.17 J/cm @Thickness 3.18 mm	2.19 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Unnotched	10.4 J/cm @Thickness 3.18 mm	19.5 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Notched (ISO)	12.0 kJ/m ²	5.71 ft-lb/in ²	ISO 180
Izod Impact, Unnotched (ISO)	70.4 kJ/m ²	33.5 ft-lb/in ²	ISO 180

Falling Dart Impact Mechanical Properties	6.60 J Metric	4.87 ft-lb English	ASTM D3763 Comments
Impact Test	2.59 J	1.91 ft-lb	Multi-Axial Instrumented Impact Energy; ISO 6603-2
Coefficient of Friction, Dynamic	0.59	0.59	vs. Steel - @ 40 psi, 50 ft/min, tested in accordance with LNP WI-0687; ASTM D1894
Coefficient of Friction, Static	0.52	0.52	vs. Steel @ 40 psi, tested in accordance with LNP WI-0687; ASTM D1894
K (wear) Factor	36.3 x 10 ⁻⁸ mm ³ /N-M	18.0 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)	259 °C	498 °F	Unannealed; ASTM D648

Processing Properties	Metric	English	Comments
Melt Temperature	316 - 329 °C	601 - 624 °F	
Mold Temperature	149 - 171 °C	300 - 340 °F	
Drying Temperature	121 °C	250 °F	
Dry Time	4 hour	4 hour	
Moisture Content	0.15 %	0.15 %	Suggested
Back Pressure	0.172 - 0.345 MPa	24.9 - 50.0 psi	

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