

LNP Lubricomp® LCL-4033 EM Polyetheretherketone, Carbon Fiber Reinforcement, PTFE Lubricant (discontinued **)

Category : Polymer , Thermoplastic , Polyketone , Polyetheretherketone (PEEK) , Polyetheretherketone, PEEK, Carbon Fiber Filled

Material Notes:

Features: Good Moldability, 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-LCL-4033-EM-Polyetheretherketone-Carbon-Fiber-Reinforcement-PTFE-Lubricant-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.43 g/cc	1.43 g/cc	Method A; ASTM D792
Density	1.43 g/cc	0.0517 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.0010 - 0.0020 cm/cm	0.0010 - 0.0020 in/in	ASTM D955
Linear Mold Shrinkage, Transverse	0.0070 cm/cm	0.0070 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	179 MPa	26000 psi	ASTM D638
Tensile Strength, Yield	179 MPa	26000 psi	ASTM D638
Elongation at Break	1.7 %	1.7 %	ASTM D638
Elongation at Yield	1.7 %	1.7 %	ASTM D638
Tensile Modulus	16.6 GPa	2410 ksi	ASTM D638
Flexural Modulus	13.0 GPa	1890 ksi	ASTM D790
Izod Impact, Notched	0.641 J/cm @Thickness 3.18 mm	1.20 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Unnotched	4.91 J/cm @Thickness 3.18 mm	9.20 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Notched (ISO)	6.60 kJ/m ²	3.14 ft-lb/in ²	ISO 180
Izod Impact, Unnotched (ISO)	34.6 kJ/m ²	16.5 ft-lb/in ²	ISO 180
Falling Dart Impact	8.80 J	6.49 ft-lb	ASTM D3763
Coefficient of Friction, Dynamic	0.35	0.35	vs. Steel - @ 40 psi, 50 ft/min, tested in accordance with LNP WI-0687;

Mechanical Properties	Metric	English	ASTM D1894 Comments
Coefficient of Friction, Static	0.28	0.28	vs. Steel @ 40 psi, tested in accordance with LNP WI-0687; ASTM D1894
K (wear) Factor	26.2 x 10 ⁻⁸ mm ³ /N-M	13.0 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)	299 °C	570 °F	Unannealed; ASTM D648
Flammability, UL94	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	

Processing Properties	Metric	English	Comments
Melt Temperature	379 - 388 °C	714 - 730 °F	
Mold Temperature	135 - 163 °C	275 - 325 °F	
Drying Temperature	121 - 149 °C	250 - 300 °F	
Dry Time	4 hour	4 hour	
Moisture Content	0.10 %	0.10 %	Suggested
Back Pressure	0.345 - 0.689 MPa	50.0 - 99.9 psi	

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