

LNP Lubricomp® KL-4040 Acetal (POM) Homopolymer, PTFE Additive (discontinued **)

Categories: [Polymer](#); [Thermoplastic](#); [Acetal \(Polyoxymethylene, POM\)](#); [Acetal Homopolymer, PTFE-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.

Vendors: No vendors are listed for this material. Please [click here](#) if you are a supplier and would like information on how to add your listing to this material.

Physical Properties	Metric	English	Comments
Specific Gravity	1.50 g/cc	1.50 g/cc	Method A; ASTM D792
Density	1.50 g/cc	0.0542 lb/in ³	ISO 1183
Water Absorption	0.10 %	0.10 %	at 24 hrs; ASTM D570
Linear Mold Shrinkage	0.024 - 0.025 cm/cm	0.024 - 0.025 in/in	ASTM D955
Linear Mold Shrinkage, Transverse	0.021 - 0.022 cm/cm	0.021 - 0.022 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	50.3 MPa	7300 psi	ASTM D638
Tensile Strength, Yield	51.0 MPa	7400 psi	ASTM D638
Tensile Modulus	2.14 GPa	310 ksi	ASTM D638
Flexural Strength	68.9 MPa	9990 psi	ASTM D790
Flexural Modulus	2.07 GPa	300 ksi	ASTM D790
Izod Impact, Notched	0.427 J/cm @Thickness 3.18 mm	0.800 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Unnotched	6.51 J/cm @Thickness 3.18 mm	12.2 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Notched (ISO)	4.00 kJ/m ²	1.90 ft-lb/in ²	ISO 180
Izod Impact, Unnotched (ISO)	45.2 kJ/m ²	21.5 ft-lb/in ²	ISO 180
Falling Dart Impact	6.40 J	4.72 ft-lb	ASTM D3763
Instrumented Impact Total Energy	0.770 J	0.568 ft-lb	Multi-Axial Instrumented Impact Energy; ISO 6603-2
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	0.18	0.18	vs. Steel @ 40 psi, in accordance with LNP WI-0687; ASTM D1894
K (wear) Factor	20.1 x 10 ⁻⁹ mm ³ /N-M	10.0 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 0.46 MPa (66 psi)	157 °C	315 °F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	99.4 °C	211 °F	Unannealed; ASTM D648

Processing Properties	Metric	English	Comments
Melt Temperature	199 - 213 °C	390 - 415 °F	
Mold Temperature	82.2 - 107 °C	180 - 225 °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	

** Materials flagged as discontinued (🚫) are no longer part of the manufacturer's standard product line according to our latest information. These materials may be available by special order, in distribution inventory, or reinstated as an active product. Data sheets from materials that are no longer available remain in MatWeb to assist users in finding replacement materials.

Users of our Advanced Search (registration required) may exclude discontinued materials from search results.

Some of the values displayed above may have been converted from their original units and/or rounded in order to display the information in a consistent format. Users requiring more precise data for scientific or engineering calculations can click on the property value to see the original value as well as raw conversions to equivalent units. We advise that you only use the original value or one of its raw conversions in your calculations to minimize rounding error. We also ask that you refer to MatWeb's [terms of use](#) regarding this information. [Click here](#) to view all the property values for this datasheet as they were originally entered into MatWeb.