

SABIC Innovative Plastics LNP LUBRICOMP KP004AXP POM (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Acetal (POM)

Material Notes:

LNP* LUBRICOMP* KP004AXP is a compound based on Acetal Homopolymer containing PTFE, Silicone. Added features include Internally Lubricated.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-KP004AXP-POM-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.48 g/cc	0.0535 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.030 cm/cm	0.030 in/in	SABIC Method

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	43.0 MPa	6240 psi	5 mm/min; ISO 527
Elongation at Yield	12.9 %	12.9 %	5 mm/min; ISO 527
Tensile Modulus	2.40 GPa	348 ksi	1 mm/min; ISO 527
Flexural Yield Strength	61.0 MPa	8850 psi	2 mm/min; ISO 178
Flexural Modulus	2.10 GPa	305 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	6.00 kJ/m ²	2.86 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	30.0 kJ/m ²	14.3 ft-lb/in ²	80*10*4; ISO 180/1U
Coefficient of Friction, Dynamic	0.25	0.25	ASTM D3702 Modified
Coefficient of Friction, Static	0.16	0.16	ASTM D3702 Modified
K (wear) Factor	18.1 x 10 ⁻⁸ mm ³ /N-M	9.00 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	122 Âµm/m-Â°C @Temperature 23.0 - 60.0 Â°C	67.8 Âµin/in-Â°F @Temperature 73.4 - 140 Â°F	ISO 11359-2
CTE, linear, Transverse to Flow	115 Âµm/m-Â°C @Temperature 23.0 - 60.0 Â°C	63.9 Âµin/in-Â°F @Temperature 73.4 - 140 Â°F	ISO 11359-2
Deflection Temperature at 1.8 MPa			

(264 psi)	85.0 Å°C	185 Å°F	Flatw 80×10×4 sp=64mm; ISO 75/Åf
Thermal Properties	Metric	English	Comments

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