

SABIC Innovative Plastics LNP LUBRICOMP KI001XXJ Acetal

Category : Polymer , Thermoplastic , Acetal (POM)

Material Notes:

LNP* LUBRICOMP* KI001XXJ is a compound based on Acetal containing 2% Silicone. Added features of this grade include: Wear Resistant, Healthcare.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-KI001XXJ-Acetal.php

Physical Properties	Metric	English	Comments
Density	1.40 g/cc	0.0506 lb/in ³	ISO 1183
Moisture Absorption	0.240 %	0.240 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.024 cm/cm @Time 86400 sec	0.024 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.024 cm/cm @Time 86400 sec	0.024 in/in @Time 24.0 hour	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	52.0 MPa	7540 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	55.0 MPa	7980 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	46 %	46 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	16 %	16 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	2.75 GPa	399 ksi	50 mm/min; ASTM D638
Flexural Yield Strength	74.0 MPa	10700 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.28 GPa	331 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.810 J/cm	1.52 ft-lb/in	ASTM D256
Izod Impact, Unnotched	15.5 J/cm	29.0 ft-lb/in	ASTM D4812
Coefficient of Friction, Dynamic	0.44	0.44	ASTM D3702 Modified
Coefficient of Friction, Static	0.34	0.34	ASTM D3702 Modified
K (wear) Factor	44.3 x 10 ⁻⁸ mm ³ /N-M	22.0 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	106 Å°C @Thickness 3.20 mm	223 Å°F @Thickness 0.126 in	unannealed; ASTM D648

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