

SABIC Innovative Plastics LNP LUBRICOMP KP004A Acetal Homopolymer

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Homopolymer, Unreinforced

Material Notes:

LNP* LUBRICOMP* KP004A is a compound based on Acetal Homopolymer resin containing 20% PTFE/Silicone. Added feature of this material is: Wear Resistant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-KP004A-Acetal-Homopolymer.php

Physical Properties	Metric	English	Comments
Density	1.49 g/cc	0.0538 lb/in ³	ASTM D792
	1.49 g/cc	0.0538 lb/in ³	ISO 1183
Moisture Absorption	0.200 %	0.200 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.021 cm/cm	0.021 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0214 cm/cm	0.0214 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0205 cm/cm	0.0205 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.021 cm/cm	0.021 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	45.0 MPa	6530 psi	ISO 527
	50.0 MPa	7250 psi	ASTM D638
Elongation at Break	10.5 %	10.5 %	ISO 527
	12.5 %	12.5 %	ASTM D638
Tensile Modulus	2.20 GPa	319 ksi	50 mm/min; ASTM D638
	2.60 GPa	377 ksi	1 mm/min; ISO 527
Flexural Strength	75.0 MPa	10900 psi	ASTM D790
	77.0 MPa	11200 psi	ISO 178
Flexural Modulus	2.41 GPa	350 ksi	ASTM D790

Mechanical Properties	2.80 GPa Metric	406 ksi English	ISO 178 Comments
Izod Impact, Notched	0.480 J/cm	0.899 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.27 J/cm	8.00 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	4.00 kJ/m ²	1.90 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	29.0 kJ/m ²	13.8 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	5.00 J	3.69 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	1.00 J	0.738 ft-lb	Multiaxial Impact; ISO 6603
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
Deflection Temperature at 0.46 MPa (66 psi)	163 Â°C @Thickness 3.20 mm	325 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	99.0 Â°C @Thickness 3.20 mm	210 Â°F @Thickness 0.126 in	Flatw 80*10*4 sp=64mm; ISO 75/Af unannealed; ASTM D648

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