

SABIC Innovative Plastics LNP LUBRILOY K2000XXH Acetal

Category : Polymer , Thermoplastic , Acetal (POM)

Material Notes:

LNP LUBRILOY* K2000XXH is a compound based on Acetal resin containing Proprietary Lubricant. Added features of this material are:

Wear Resistant, Healthcare.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRILOY-K2000XXH-Acetal.php

Physical Properties	Metric	English	Comments
Density	1.40 g/cc	0.0506 lb/in ³	ASTM D792
	1.40 g/cc	0.0506 lb/in ³	ISO 1183
Moisture Absorption	0.330 %	0.330 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.022 cm/cm	0.022 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0221 cm/cm	0.0221 in/in	ISO 294
	@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	0.023 cm/cm	0.023 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	51.0 MPa	7400 psi	ASTM D638
	59.0 MPa	8560 psi	ISO 527
Tensile Strength, Yield	55.0 MPa	7980 psi	ASTM D638
	60.0 MPa	8700 psi	ISO 527
Elongation at Break	13.3 %	13.3 %	ISO 527
	32.4 %	32.4 %	ASTM D638
Elongation at Yield	9.0 %	9.0 %	ISO 527
	9.3 %	9.3 %	ASTM D638
Tensile Modulus	2.06 GPa	299 ksi	50 mm/min; ASTM D638

Mechanical Properties	2.56 GPa Metric	371 ksi English	1 mm/min: ISO 527 Comments
Flexural Strength	65.0 MPa	9430 psi	ISO 178
	84.0 MPa	12200 psi	ASTM D790
Flexural Modulus	2.42 GPa	351 ksi	ASTM D790
	2.42 GPa	351 ksi	ISO 178
Izod Impact, Notched	0.690 J/cm	1.29 ft-lb/in	ASTM D256
Izod Impact, Unnotched	13.56 J/cm	25.40 ft-lb/in	ASTM D4812
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)	48.0 kJ/m ²	22.8 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	6.00 J	4.43 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Coefficient of Friction, Dynamic	0.38	0.38	ASTM D3702 Modified
Coefficient of Friction, Static	0.24	0.24	ASTM D3702 Modified
K (wear) Factor	20.1 x 10 ⁻⁸ mm ³ /N-M	10.0 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	115 Åµm/m-Å°C	63.9 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
CTE, linear, Transverse to Flow	115 Åµm/m-Å°C	63.9 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
CTE, linear, Transverse to Flow	111 Åµm/m-Å°C	61.7 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	158 Å°C	316 Å°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	87.0 Å°C	189 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	110 Å°C	230 Å°F	

Thermal Properties

Metric
@ Thickness 3.20 mm

English
@ Thickness 0.126 in

unannealed; ASTM D648
Comments

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