

SABIC Innovative Plastics LNP LUBRICOMP KG002 Acetal Copolymer (Asia Pacific)

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

Material Notes:

LNP* Lubricomp* KG002 is a compound based on Acetal Copolymer resin containing Graphite Powder. Added features of this material include: Internally Lubricated.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-KG002-Acetal-Copolymer-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.45 g/cc	0.0524 lb/in ³	ASTM D792
	1.45 g/cc	0.0524 lb/in ³	ISO 1183
Moisture Absorption	0.200 %	0.200 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.023 cm/cm	0.023 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.023 cm/cm	0.023 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.022 cm/cm	0.022 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.022 cm/cm	0.022 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	48.0 MPa	6960 psi	ASTM D638
	49.0 MPa	7110 psi	ISO 527
Tensile Strength, Yield	51.0 MPa	7400 psi	ASTM D638
	51.0 MPa	7400 psi	ISO 527
Elongation at Break	19.4 %	19.4 %	ISO 527
	20.1 %	20.1 %	ASTM D638
Elongation at Yield	6.9 %	6.9 %	ASTM D638
	7.5 %	7.5 %	ISO 527
Tensile Modulus	3.18 GPa	461 ksi	1 mm/min; ISO 527

Mechanical Properties	Metric 3.33 GPa	English 480 ksi	Comments 50 mm/min; ASTM D638
Flexural Strength	70.0 MPa	10200 psi	ISO 178
Flexural Modulus	2.75 GPa	399 ksi	ASTM D790
	3.00 GPa	435 ksi	ISO 178
Izod Impact, Notched	0.0500 J/cm	0.0937 ft-lb/in	ASTM D256
Izod Impact, Unnotched	0.480 J/cm	0.899 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	46.0 kJ/m ²	21.9 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	692 kJ/m ²	329 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	0.56	0.56	ASTM D3702 Modified
Coefficient of Friction, Static	0.44	0.44	ASTM D3702 Modified
K (wear) Factor	207 x 10 ⁻⁸ mm ³ /N-M	103 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	106 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	58.9 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
	106 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	58.9 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
CTE, linear, Transverse to Flow	95.4 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	53.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
	96.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	53.3 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	110 $\text{Å}^\circ\text{C}$	230 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	157 $\text{Å}^\circ\text{C}$	315 $\text{Å}^\circ\text{F}$	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648

Deflection Temperature at 1.8 MPa Thermal Properties (104 psi)	65.0 °C Metric	149 °F English	Flatw 80*10*4 sp=64mm; ISO 75/Af Comments
	103 °C @Thickness 3.20 mm	217 °F @Thickness 0.126 in	unannealed; ASTM D648

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