

SABIC Innovative Plastics LNP LUBRILOY KL201 Acetal

Category : Polymer , Thermoplastic , Acetal (POM)

Material Notes:

LNP LUBRILOY* KL201 is a compound based on Acetal resin containing Proprietary Lubricant. PTFE. Added feature of this material is: Wear Resistant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRILOY-KL201-Acetal.php

Physical Properties	Metric	English	Comments
Density	1.40 g/cc	0.0506 lb/in ³	ISO 1183
	1.41 g/cc	0.0509 lb/in ³	ASTM D792
Moisture Absorption	0.970 %	0.970 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.025 - 0.030 cm/cm	0.025 - 0.030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.025 - 0.027 cm/cm	0.025 - 0.027 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	51.0 MPa	7400 psi	ASTM D638
	53.0 MPa	7690 psi	ISO 527
Elongation at Yield	20 %	20 %	ASTM D638
Tensile Modulus	2.65 GPa	384 ksi	50 mm/min; ASTM D638
	3.05 GPa	442 ksi	1 mm/min; ISO 527
Flexural Strength	68.0 MPa	9860 psi	ASTM D790
Flexural Modulus	2.16 GPa	313 ksi	ASTM D790
	2.26 GPa	328 ksi	ISO 178
Izod Impact, Notched	0.680 J/cm	1.27 ft-lb/in	ASTM D256
Izod Impact, Unnotched	13.67 J/cm	25.61 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	5.00 kJ/m ²	2.38 ft-lb/in ²	80*10*4; ISO 180/1A
Coefficient of Friction, Dynamic	0.30	0.30	ASTM D3702 Modified
Coefficient of Friction, Static	0.090	0.090	ASTM D3702 Modified

Mechanical Properties	Metric	English	Comments
	$10^{-9} \text{ mm}^2/\text{N-M}$	$10^{-70} \text{ in}^2\text{-mm}/\text{ft-lb-in}$	Washer, ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	88.9 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	49.4 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	ASTM E 831
CTE, linear, Transverse to Flow	85.1 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	47.3 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	ASTM E 831
Deflection Temperature at 0.46 MPa (66 psi)	157 $\text{Å}^\circ\text{C}$ @Thickness 3.20 mm	315 $\text{Å}^\circ\text{F}$ @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	93.0 $\text{Å}^\circ\text{C}$	199 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Af
	91.0 $\text{Å}^\circ\text{C}$ @Thickness 3.20 mm	196 $\text{Å}^\circ\text{F}$ @Thickness 0.126 in	unannealed; ASTM D648

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