

SABIC Innovative Plastics LNP LUBRICOMP KL001 Acetal Copolymer

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

Material Notes:

LNP* LUBRICOMP* KL001 is a compound based on Acetal Copolymer resin containing 5% 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-LUBRICOMP-KL001-Acetal-Copolymer.php

Physical Properties	Metric	English	Comments
Density	1.43 g/cc	0.0517 lb/in ³	ISO 1183
	1.44 g/cc	0.0520 lb/in ³	ASTM D792
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	0.023 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	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	52.0 MPa	7540 psi	ASTM D638
	53.0 MPa	7690 psi	ISO 527
Tensile Strength, Yield	54.0 MPa	7830 psi	ISO 527
	55.0 MPa	7980 psi	ASTM D638
Elongation at Break	29.6 %	29.6 %	ISO 527
	33.9 %	33.9 %	ASTM D638
Elongation at Yield	9.8 %	9.8 %	ASTM D638
	11.4 %	11.4 %	ISO 527
Tensile Modulus	2.62 GPa	380 ksi	1 mm/min; ISO 527

Mechanical Properties	2.75 GPa Metric	399 ksi English	50 mm/min; ASTM D638 Comments
Flexural Strength	13.0 MPa	1890 psi	ASTM D790
	70.0 MPa	10200 psi	ISO 178
Flexural Modulus	2.00 GPa	290 ksi	ISO 178
	3.44 GPa	499 ksi	ASTM D790
Izod Impact, Notched	0.0500 J/cm	0.0937 ft-lb/in	ASTM D256
Izod Impact, Unnotched	0.640 J/cm	1.20 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	47.0 kJ/m ²	22.4 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	1029 kJ/m ²	489.6 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
Coefficient of Friction, Dynamic	0.38	0.38	ASTM D3702 Modified
Coefficient of Friction, Static	0.17	0.17	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
CTE, linear, Parallel to Flow	118 Åµm/m-Å°C	65.6 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	119 Åµm/m-Å°C	66.1 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	113 Åµm/m-Å°C	62.8 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)	113 Åµm/m-Å°C	62.8 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	149 Å°C	300 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	157 Å°C	315 Å°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	96.0 Å°C	205 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af

Thermal Properties	Metric	English	Comments
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648

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