

SABIC Innovative Plastics LNP LUBRICOMP KL004AXC Acetal Homopolymer

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

Material Notes:

LNP* LUBRICOMP* KL004AXC is a compound based on Acetal Homopolymer resin containing 20% 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-KL004AXC-Acetal-Homopolymer.php

Physical Properties	Metric	English	Comments
Density	1.52 g/cc	0.0549 lb/in ³	ASTM D792
	1.52 g/cc	0.0549 lb/in ³	ISO 1183
Moisture Absorption	0.230 %	0.230 %	50% RH, 24 hrs; ASTM D570
	0.370 %	0.370 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.020 - 0.0219 cm/cm	0.020 - 0.0219 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.020 - 0.022 cm/cm	0.020 - 0.022 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.020 - 0.0219 cm/cm	0.020 - 0.0219 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.020 - 0.022 cm/cm	0.020 - 0.022 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	50.0 MPa	7250 psi	5 mm/min; ISO 527
	56.0 MPa	8120 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	9.4 %	9.4 %	5 mm/min; ISO 527
	11.4 %	11.4 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	2.55 GPa	370 ksi	50 mm/min; ASTM D638
	2.70 GPa	392 ksi	1 mm/min; ISO 527
Flexural Strength	86.0 MPa	12500 psi	ASTM D790
	86.0 MPa	12500 psi	ISO 178

Flexural Modulus Mechanical Properties	2.62 GPa Metric	380 ksi English	1.3 mm/min, 50 mm span; ASTM D790 Comments
	2.90 GPa	421 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.420 J/cm	0.787 ft-lb/in	ASTM D256
Izod Impact, Unnotched	5.60 J/cm	10.5 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)	39.0 kJ/m ²	18.6 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	7.00 J @Temperature 23.0 Â°C	5.16 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Coefficient of Friction, Dynamic	0.22	0.22	ASTM D3702 Modified
Coefficient of Friction, Static	0.090	0.090	ASTM D3702 Modified
K (wear) Factor	24.2 x 10 ⁻⁸ mm ³ /N-M	12.0 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	98.0 Â°C	208 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	95.0 Â°C @Thickness 3.20 mm	203 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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