

SABIC Innovative Plastics LNP LUBRICOMP KL003 Acetal Copolymer

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

Material Notes:

LNP LUBRICOMP* KL003 is a compound based on Acetal Copolymer resin containing 15% 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-KL003-Acetal-Copolymer.php

Physical Properties	Metric	English	Comments
Density	1.49 g/cc	0.0538 lb/in ³	ASTM D792
	1.49 g/cc	0.0538 lb/in ³	ISO 1183
Moisture Absorption	0.200 %	0.200 %	50% RH, 24 hrs; ASTM D570
	0.290 %	0.290 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	>= 0.020 cm/cm	>= 0.020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.010 - 0.030 cm/cm	0.010 - 0.030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	46.0 MPa	6670 psi	5 mm/min; ISO 527
	48.0 MPa	6960 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	46.0 MPa	6670 psi	5 mm/min; ISO 527
	48.0 MPa	6960 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	16 %	16 %	5 mm/min; ISO 527
	19 %	19 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	9.0 %	9.0 %	5 mm/min; ISO 527
	10 %	10 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	2.46 GPa	357 ksi	1 mm/min; ISO 527
	2.53 GPa	367 ksi	50 mm/min; ASTM D638
Flexural Strength	75.0 MPa	10900 psi	ASTM D790
Flexural Modulus	2.21 GPa	321 ksi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	Metric 2.24 GPa	English 325 ksi	Comments 2 mm/min, ISO 178
Izod Impact, Notched	0.370 J/cm	0.693 ft-lb/in	ASTM D256
Izod Impact, Unnotched	7.10 J/cm	13.3 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	3.00 kJ/mÂ²	1.43 ft-lb/inÂ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	45.0 kJ/mÂ²	21.4 ft-lb/inÂ²	80*10*4; ISO 180/1U
Coefficient of Friction, Dynamic	0.35	0.35	ASTM D3702 Modified
Coefficient of Friction, Static	0.17	0.17	ASTM D3702 Modified
K (wear) Factor	22.2 x 10 ⁻⁸ mmÂ³/N-M	11.0 x 10 ⁻¹⁰ inÂ³- min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	107 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	59.4 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	107 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	59.4 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	149 Â°C	300 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	158 Â°C @Thickness 3.20 mm	316 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	88.0 Â°C	190 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	97.0 Â°C @Thickness 3.20 mm	207 Â°F @Thickness 0.126 in	unannealed; ASTM D648

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China