

SABIC Innovative Plastics LNP LUBRICOMP KP004 Acetal

Category : Polymer , Thermoplastic , Acetal (POM)

Material Notes:

LNP LUBRICOMP* KP004 is a compound based on Acetal Copolymer resin containing 20% PTFE/Silicone. 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-KP004-Acetal.php

Physical Properties	Metric	English	Comments
Density	1.48 g/cc	0.0535 lb/in ³	ASTM D792
	1.48 g/cc	0.0535 lb/in ³	ISO 1183
Moisture Absorption	0.180 %	0.180 %	50% RH, 24 hrs; ASTM D570
	0.430 %	0.430 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.021 - 0.029 cm/cm	0.021 - 0.029 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.021 - 0.029 cm/cm	0.021 - 0.029 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	39.0 MPa	5660 psi	5 mm/min; ISO 527
	43.0 MPa	6240 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	39.0 MPa	5660 psi	5 mm/min; ISO 527
	43.0 MPa	6240 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	30.3 %	30.3 %	Type I, 5 mm/min; ASTM D638
	42.8 %	42.8 %	5 mm/min; ISO 527
Elongation at Yield	13.7 %	13.7 %	Type I, 5 mm/min; ASTM D638
	21.5 %	21.5 %	5 mm/min; ISO 527
Tensile Modulus	1.83 GPa	265 ksi	50 mm/min; ASTM D638
	2.02 GPa	293 ksi	1 mm/min; ISO 527
Flexural Strength	60.0 MPa	8700 psi	ISO 178
	63.0 MPa	9140 psi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	Metric	English	Comments
Flexural Modulus	2.02 GPa	293 ksi	1 mm/min, 50 mm span; ASTM D790
	2.08 GPa	302 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.530 J/cm	0.993 ft-lb/in	ASTM D256
Izod Impact, Unnotched	6.19 J/cm	11.6 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
Izod Impact, Unnotched (ISO)	42.0 kJ/m ²	20.0 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	3.00 J	2.21 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	0.25	0.25	ASTM D3702 Modified
Coefficient of Friction, Static	0.14	0.14	ASTM D3702 Modified
K (wear) Factor	18.1 x 10 ⁻⁸ mm ³ /N-M	9.00 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	111 Åµm/m-Å°C	61.7 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	114 Åµm/m-Å°C	63.3 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 1.8 MPa (264 psi)	79.0 Å°C	174 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	87.0 Å°C	189 Å°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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