

SABIC Innovative Plastics LNP LUBRICOMP KFI12 Acetal Copolymer

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Copolymer, 10% Glass Fiber Reinforced

Material Notes:

LNP LUBRICOMP* KFI12 is a compound based on Acetal Copolymer resin containing 10% Glass Fiber, 2% Silicone. Added feature of this grade is: Wear Resistant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-KFI12-Acetal-Copolymer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.44 g/cc	1.44 g/cc	ASTM D792
Density	1.44 g/cc	0.0520 lb/in ³	ASTM D792
Moisture Absorption	0.250 %	0.250 %	50% RH, 24 hrs; ASTM D570
	0.340 %	0.340 %	23Â°C / 50% RH; ISO 62

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	56.0 MPa	8120 psi	Type I, 5 mm/min; ASTM D638
	58.0 MPa	8410 psi	5 mm/min; ISO 527
Tensile Strength, Yield	62.0 MPa	8990 psi	Type I, 5 mm/min; ASTM D638
	62.0 MPa	8990 psi	5 mm/min; ISO 527
Elongation at Break	2.6 %	2.6 %	5 mm/min; ISO 527
	3.3 %	3.3 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	2.3 %	2.3 %	Type I, 5 mm/min; ASTM D638
	2.3 %	2.3 %	5 mm/min; ISO 527
Tensile Modulus	4.78 GPa	693 ksi	1 mm/min; ISO 527
	4.91 GPa	712 ksi	50 mm/min; ASTM D638
Flexural Strength	91.0 MPa	13200 psi	ISO 178
Flexural Yield Strength	91.0 MPa	13200 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	4.07 GPa	590 ksi	1.3 mm/min, 50 mm span; ASTM D790
	4.14 GPa	600 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.540 J/cm	1.01 ft-lb/in	ASTM D256

Mechanical Properties ¹	Metric ¹ /cm	English ¹ /lb/in	Comments ^{1,2}
Izod Impact, Notched (ISO)	5.00 kJ/mÂ²	2.38 ft-lb/inÂ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	26.0 kJ/mÂ²	12.4 ft-lb/inÂ²	80*10*3; ISO 180/1U
Dart Drop, Total Energy	5.00 J @Temperature 23.0 Â°C	3.69 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	83.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	46.1 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	90.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	50.0 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	162 Â°C	324 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	163 Â°C @Thickness 3.20 mm	325 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	159 Â°C	318 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	161 Â°C @Thickness 3.20 mm	322 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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