

SABIC Innovative Plastics LNP LUBRICOMP KFP032 Acetal Copolymer

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

Material Notes:

LNP LUBRICOMP* KFP032 is a compound based on Acetal Copolymer resin containing 10% Glass Fiber, 15% 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-KFP032-Acetal-Copolymer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.52 g/cc	1.52 g/cc	ASTM D792
Density	1.51 g/cc	0.0546 lb/in ³	ASTM D792

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	64.0 MPa	9280 psi	5 mm/min; ISO 527
	67.0 MPa	9720 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.5 %	2.5 %	5 mm/min; ISO 527
	2.6 %	2.6 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	4.81 GPa	698 ksi	1 mm/min; ISO 527
	5.02 GPa	728 ksi	5 mm/min; ASTM D638
Flexural Strength	94.0 MPa	13600 psi	1.3 mm/min, 50 mm span; ASTM D790
	95.0 MPa	13800 psi	ISO 178
Flexural Yield Strength	100 MPa	14500 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	4.12 GPa	598 ksi	2 mm/min; ISO 178
	4.18 GPa	606 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.390 J/cm	0.731 ft-lb/in	ASTM D256
Izod Impact, Unnotched	3.81 J/cm	7.14 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	3.00 kJ/m ²	1.43 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	24.0 kJ/m ²	11.4 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	5.00 J	3.69 ft-lb	ASTM D3763
	@Temperature 23.0		

Mechanical Properties	Metric	English	Comments
Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	161 °C	322 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	162 °C	324 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	148 °C	298 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	159 °C	318 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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