

SABIC Innovative Plastics LNP LUBRICOMP KFL25 Acetal Copolymer

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Copolymer, 30% Glass Fiber Reinforced

Material Notes:

LNP LUBRICOMP* KFL25 is a compound based on Acetal Copolymer resin containing 25% Glass Fiber, 10% 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-KFL25-Acetal-Copolymer.php

Physical Properties	Metric	English	Comments
Density	1.65 g/cc	0.0596 lb/in ³	ASTM D792
	1.65 g/cc	0.0596 lb/in ³	ISO 1183
Moisture Absorption	0.190 %	0.190 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0050 cm/cm	0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0050 cm/cm	0.0050 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0096 cm/cm	0.0096 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.010 cm/cm	0.010 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	84.0 MPa	12200 psi	ISO 527
	85.0 MPa	12300 psi	ASTM D638
Elongation at Break	1.3 %	1.3 %	ASTM D638
	1.3 %	1.3 %	ISO 527
Tensile Modulus	9.87 GPa	1430 ksi	1 mm/min; ISO 527
	10.24 GPa	1485 ksi	50 mm/min; ASTM D638
Flexural Strength	130 MPa	18900 psi	ISO 178
	131 MPa	19000 psi	ASTM D790
Flexural Modulus	9.10 GPa	1320 ksi	ASTM D790

Mechanical Properties	9.20 GPa Metric	1330 ksi English	ISO 178 Comments
Izod Impact, Notched	0.480 J/cm	0.899 ft-lb/in	ASTM D256
Izod Impact, Unnotched	2.93 J/cm	5.49 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)	18.0 kJ/m ²	8.57 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	8.00 J	5.90 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	1.00 J	0.738 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	82.2 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	45.7 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
CTE, linear, Transverse to Flow	82.6 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	45.9 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
CTE, linear, Transverse to Flow	63.2 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	35.1 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 1.8 MPa (264 psi)	63.3 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	35.2 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 1.8 MPa (264 psi)	165 $\text{Å}^\circ\text{C}$	329 $\text{Å}^\circ\text{F}$	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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