

SABIC Innovative Plastics LNP Lubricomp KF112A Acetal Homopolymer

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Homopolymer, Glass Fiber Reinforced

Material Notes:

LNP LUBRICOMP* KF112A is a compound based on Acetal Homopolymer resin containing Glass Fiber, Silicone. Added features of this material include: Internally Lubricated. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Lubricomp-KF112A-Acetal-Homopolymer.php

Physical Properties	Metric	English	Comments
Density	1.46 g/cc	0.0527 lb/in ³	ASTM D 792
	1.46 g/cc	0.0527 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.23 %	0.23 %	50% RH; ASTM D 570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0125 - 0.0129 cm/cm	0.0125 - 0.0129 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
	0.0125 - 0.0129 cm/cm	0.0125 - 0.0129 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0157 - 0.0165 cm/cm	0.0157 - 0.0165 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0157 - 0.017 cm/cm	0.0157 - 0.017 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	78.0 MPa	11300 psi	ASTM D 638
	78.0 MPa	11300 psi	ISO 527
Elongation at Break	2.7 %	2.7 %	ISO 527
	3.2 %	3.2 %	ASTM D 638
Tensile Modulus	5.10 GPa	740 ksi	50 mm/min; ASTM D 638
	5.28 GPa	766 ksi	1 mm/min; ISO 527
Flexural Strength	126 MPa	18300 psi	ASTM D 790
	127 MPa	18400 psi	ISO 178
Flexural Modulus	4.96 GPa	719 ksi	ASTM D 790

Mechanical Properties	Metric	English	Comments
	5.04 GPa	730 ksi	ISO 178
Izod Impact, Notched	0.480 J/cm @Temperature 23.0 Â°C	0.899 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	4.27 J/cm @Temperature 23.0 Â°C	8.00 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	5.00 kJ/mÂ² @Temperature 23.0 Â°C	2.38 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	28.0 kJ/mÂ² @Temperature 23.0 Â°C	13.3 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U
Impact Test	3.00 J	2.21 ft-lb	Multiaxial Impact; ISO 6603
	5.00 J @Temperature 23.0 Â°C	3.69 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Energy @ peak; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	85.1 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	47.3 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	85.1 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	47.3 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
CTE, linear, Transverse to Flow	92.8 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	51.6 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	92.9 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	51.6 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
Deflection Temperature at 1.8 MPa (264 psi)	166 Â°C	331 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	172 Â°C @Thickness 3.20 mm	342 Â°F @Thickness 0.126 in	unannealed; ASTM D 648

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