

SABIC Innovative Plastics LNP Lubricomp KFL34 Acetal Copolymer

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Copolymer + Glass/PTFE

Material Notes:

LNP* Lubricomp* KFL34 is a compound based on Acetal Copolymer resin containing Glass Fiber, PTFE. 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-KFL34-Acetal-Copolymer.php

Physical Properties	Metric	English	Comments
Density	1.65 g/cc	0.0596 lb/in ³	ASTM D 792
Linear Mold Shrinkage, Flow	0.0048 cm/cm	0.0048 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0050 cm/cm	0.0050 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0107 cm/cm	0.0107 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.011 cm/cm	0.011 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	80.0 MPa	11600 psi	ASTM D 638
Elongation at Break	1.9 %	1.9 %	ASTM D 638
Tensile Modulus	7.23 GPa	1050 ksi	50 mm/min; ASTM D 638
Flexural Strength	117 MPa	17000 psi	ASTM D 790
Flexural Modulus	6.05 GPa	877 ksi	ASTM D 790
Izod Impact, Notched	0.420 J/cm	0.787 ft-lb/in	ASTM D 256
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
Izod Impact, Unnotched	4.25 J/cm	7.96 ft-lb/in	ASTM D 4812
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
Coefficient of Friction, Dynamic	0.46	0.46	ASTM D 3702 Modified
Coefficient of Friction, Static	0.50	0.50	ASTM D 3702 Modified

Mechanical Properties	Metric	English	Comments
	$10^{-8} \text{ mm}^2/\text{N}\cdot\text{M}$	$10^{-10} \text{ in}^2\cdot\text{in}/\text{lb}\cdot\text{hr}$	Warning: ASTM D 3702 Modified

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	159 °C @Thickness 3.20 mm	318 °F @Thickness 0.126 in	unannealed; ASTM D 648

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