

## SABIC Innovative Plastics LNP LUBRICOMP KFL32R Acetal Copolymer

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

### Material Notes:

LNP LUBRICOMP\* KFL32R is a compound based on Acetal Copolymer resin containing 10% Glass Fiber, 15% PTFE. Added feature of this material is: Easy Release, Wear Resistant.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-LUBRICOMP-KFL32R-Acetal-Copolymer.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-KFL32R-Acetal-Copolymer.php)

Physical Properties	Metric	English	Comments
Density	1.56 g/cc	0.0564 lb/in <sup>3</sup>	ASTM D792
	1.56 g/cc	0.0564 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption	0.180 %	0.180 %	50% RH, 24 hrs; ASTM D570
	0.330 %	0.330 %	23 <sup>o</sup> C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0108 cm/cm	0.0108 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.011 cm/cm	0.011 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.013 cm/cm	0.013 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0134 cm/cm	0.0134 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	79.0 MPa	11500 psi	ASTM D638
	79.0 MPa	11500 psi	ISO 527
Elongation at Break	2.5 %	2.5 %	ISO 527
	2.6 %	2.6 %	ASTM D638
Tensile Modulus	5.10 GPa	740 ksi	50 mm/min; ASTM D638
	5.40 GPa	783 ksi	1 mm/min; ISO 527
Flexural Strength	115 MPa	16700 psi	ASTM D790
	122 MPa	17700 psi	ISO 178

Flexural Modulus Mechanical Properties	4.82 GPa Metric	699 ksi English	ASTM D790 Comments
	5.80 GPa	841 ksi	ISO 178
Izod Impact, Notched	0.420 J/cm	0.787 ft-lb/in	ASTM D256
Izod Impact, Unnotched	3.47 J/cm	6.50 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	5.00 kJ/m <sup>2</sup>	2.38 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	26.0 kJ/m <sup>2</sup>	12.4 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
Dart Drop, Total Energy	6.00 J	4.43 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
Deflection Temperature at 0.46 MPa (66 psi)	165 Â°C @Thickness 3.20 mm	329 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	162 Â°C	324 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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