

## SABIC Innovative Plastics LNP LUBRICOMP KZL16 Acetal Copolymer

Category : Polymer , Thermoplastic , Acetal (POM)

### Material Notes:

LNP LUBRICOMP\* KZL16 is a compound based on Acetal Copolymer resin containing Glass Fiber, Milled Glass, PTFE. Added features of this material include: Internally Lubricated.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-LUBRICOMP-KZL16-Acetal-Copolymer.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-KZL16-Acetal-Copolymer.php)

Physical Properties	Metric	English	Comments
Density	1.65 g/cc	0.0596 lb/in <sup>3</sup>	ASTM D792
	1.65 g/cc	0.0596 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption	0.160 %	0.160 %	50% RH, 24 hrs; ASTM D570
	0.290 %	0.290 %	23 <sup>o</sup> C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.014 cm/cm	0.014 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.015 cm/cm	0.015 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0129 cm/cm	0.0129 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.016 cm/cm	0.016 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	46.0 MPa	6670 psi	ISO 527
	56.0 MPa	8120 psi	ASTM D638
Tensile Strength, Yield	49.0 MPa	7110 psi	ISO 527
	56.0 MPa	8120 psi	ASTM D638
Elongation at Break	2.6 %	2.6 %	ASTM D638
	4.0 %	4.0 %	ISO 527
Elongation at Yield	2.3 %	2.3 %	ISO 527
	3.6 %	3.6 %	ASTM D638

Tensile Modulus Mechanical Properties	5.80 GPa Metric	841 ksi English	1 mm/min: ISO 527 Comments
	6.13 GPa	889 ksi	50 mm/min; ASTM D638
Flexural Strength	92.0 MPa	13300 psi	ASTM D790
	92.0 MPa	13300 psi	ISO 178
Flexural Modulus	5.30 GPa	769 ksi	ASTM D790
	6.30 GPa	914 ksi	ISO 178
Izod Impact, Notched	0.320 J/cm	0.599 ft-lb/in	ASTM D256
Izod Impact, Unnotched	2.08 J/cm	3.90 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	3.00 kJ/m <sup>2</sup>	1.43 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	17.0 kJ/m <sup>2</sup>	8.09 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
Dart Drop, Total Energy	9.00 J	6.64 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.50	0.50	ASTM D3702 Modified
Coefficient of Friction, Static	0.43	0.43	ASTM D3702 Modified
K (wear) Factor	1850 x 10 <sup>-8</sup> mm <sup>3</sup> /N-M	920 x 10 <sup>-10</sup> in <sup>3</sup> - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	161 Â°C @Thickness 3.20 mm	322 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	147 Â°C	297 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	132 Â°C @Thickness 3.20 mm	270 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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