

## SABIC Innovative Plastics LNP LUBRICOMP KFL36 Acetal Copolymer (Asia Pacific)

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

### Material Notes:

LNP\* Lubricomp\* KFL36 is a compound based on Acetal Copolymer resin containing Glass Fiber, 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-KFL36-Acetal-Copolymer-Asia-Pacific.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-KFL36-Acetal-Copolymer-Asia-Pacific.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.75 g/cc	1.75 g/cc	ASTM D792
Density	1.75 g/cc	0.0632 lb/in <sup>3</sup>	ASTM D792
Moisture Absorption	0.160 %	0.160 %	50% RH, 24 hrs; ASTM D570
	0.260 %	0.260 %	23 <sup>o</sup> C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0070 - 0.010 cm/cm	0.0070 - 0.010 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.010 - 0.030 cm/cm	0.010 - 0.030 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	5 mm/min; ISO 527
	88.0 MPa	12800 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	1.3 %	1.3 %	Type I, 5 mm/min; ASTM D638
	1.3 %	1.3 %	5 mm/min; ISO 527
Tensile Modulus	10.61 GPa	1539 ksi	1 mm/min; ISO 527
	10.82 GPa	1569 ksi	50 mm/min; ASTM D638
Flexural Strength	107 MPa	15500 psi	1.3 mm/min, 50 mm span; ASTM D790
	130 MPa	18900 psi	ISO 178
Flexural Modulus	9.28 GPa	1350 ksi	1.3 mm/min, 50 mm span; ASTM D790
	9.93 GPa	1440 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.500 J/cm	0.937 ft-lb/in	ASTM D256

Mechanical Properties	Metric	English	Comments
Izod Impact, Unnotched (ISO)	25.0 kJ/m <sup>2</sup>	11.9 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	25.0 kJ/m <sup>2</sup>	11.9 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
Dart Drop, Total Energy	10.0 J @Temperature 23.0 Â°C	7.38 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.40	0.40	ASTM D3702 Modified
Coefficient of Friction, Static	0.46	0.46	ASTM D3702 Modified
K (wear) Factor	471 x 10 <sup>-8</sup> mm <sup>3</sup> /N-M	234 x 10 <sup>-10</sup> in <sup>3</sup> - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	95.1 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	52.8 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	64.8 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	36.0 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	163 Â°C	325 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	183 Â°C @Thickness 3.20 mm	361 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	161 Â°C	322 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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