

## SABIC Innovative Plastics LNP Lubricomp KCL34 Acetal Copoly (Asia Pacific)

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Copolymer, Carbon Fiber Filled , Acetal Copolymer, PTFE Filled

### Material Notes:

LNP\* Lubricomp\* KCL34 is a compound based on Acetal Copolymer resin containing PTFE, Carbon Fiber. Added features of this material include: Internally Lubricated, Electrically Conductive. This data was supplied by SABIC-IP for the Asia Pacific region.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-Lubricomp-KCL34-Acetal-Copoly-Asia-Pacific.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Lubricomp-KCL34-Acetal-Copoly-Asia-Pacific.php)

Physical Properties	Metric	English	Comments
Density	1.48 g/cc	0.0535 lb/in <sup>3</sup>	ASTM D 792
	1.48 g/cc	0.0535 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption at Equilibrium	0.10 %	0.10 %	50% RH; ASTM D 570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0075 cm/cm	0.0075 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0070 - 0.0090 cm/cm	0.0070 - 0.0090 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.013 - 0.015 cm/cm	0.013 - 0.015 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
	0.014 cm/cm	0.014 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	121 MPa	17500 psi	ISO 527
	127 MPa	18400 psi	ASTM D 638
Tensile Strength, Yield	122 MPa	17700 psi	ISO 527
	127 MPa	18400 psi	ASTM D 638
Elongation at Break	1.8 %	1.8 %	ISO 527
	1.9 %	1.9 %	ASTM D 638
Elongation at Yield	1.8 %	1.8 %	ISO 527
	1.9 %	1.9 %	ASTM D 638
Tensile Modulus	14.3 GPa	2070 ksi	1 mm/min; ISO 527

Mechanical Properties	Metric 15.85 GPa	English 2299 ksi	Comments 50 mm/min; ASTM D 638
Flexural Strength	180 MPa	26100 psi	ISO 178
	186 MPa	27000 psi	ASTM D 790
Flexural Modulus	12.9 GPa	1870 ksi	ISO 178
	13.1 GPa	1900 ksi	ASTM D 790
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	5.12 J/cm @Temperature 23.0 Â°C	9.59 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)	31.0 kJ/mÂ² @Temperature 23.0 Â°C	14.8 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603
	11.0 J @Temperature 23.0 Â°C	8.11 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Energy @ peak; ASTM D 3763
Coefficient of Friction, Dynamic	0.36	0.36	ASTM D 3702 Modified
K (wear) Factor	127 x 10 <sup>-8</sup> mmÂ³/N-M	63.0 x 10 <sup>-10</sup> inÂ³- min/ft-lb-hr	Washer; ASTM D 3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	70.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	38.9 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
	70.2 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	39.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
CTE, linear, Transverse to Flow	34.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	18.9 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2

Thermal Properties	Metric 34.2 Åum/m-Å°C	English 19.0 Åum/in-Å°F	Comments ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	163 Å°C	325 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	162 Å°C	324 Å°F	unannealed; ASTM D 648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	159 Å°C	318 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	160 Å°C	320 Å°F	unannealed; ASTM D 648
	@Thickness 3.20 mm	@Thickness 0.126 in	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China