

## SABIC Innovative Plastics LNP Lubricomp KP004AXZ Acetal Homopoly

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Homopolymer, PTFE-Filled

### Material Notes:

LNP\* Lubricomp\* KP004AXZ is a compound based on Acetal Homopolymer resin containing PTFE, Silicone. 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-KP004AXZ-Acetal-Homopoly.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Lubricomp-KP004AXZ-Acetal-Homopoly.php)

Physical Properties	Metric	English	Comments
Density	1.49 g/cc	0.0538 lb/in <sup>3</sup>	ISO 1183
	1.49 g/cc	0.0538 lb/in <sup>3</sup>	ASTM D 792
Moisture Absorption at Equilibrium	0.20 %	0.20 %	50% RH; ASTM D 570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.021 cm/cm	0.021 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
	0.0214 cm/cm	0.0214 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0205 cm/cm	0.0205 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.021 cm/cm	0.021 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	45.0 MPa	6530 psi	ISO 527
	50.0 MPa	7250 psi	ASTM D 638
Elongation at Break	10.5 %	10.5 %	ISO 527
	12.5 %	12.5 %	ASTM D 638
Tensile Modulus	2.20 GPa	319 ksi	50 mm/min; ASTM D 638
	2.60 GPa	377 ksi	1 mm/min; ISO 527
Flexural Strength	75.0 MPa	10900 psi	ASTM D 790
	77.0 MPa	11200 psi	ISO 178
Flexural Modulus	2.41 GPa	350 ksi	ASTM D 790

Mechanical Properties	Metric 2.80 GPa	English 400 ksi	Comments ISO 178
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	4.27 J/cm @Temperature 23.0 Â°C	8.00 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	4.00 kJ/mÂ² @Temperature 23.0 Â°C	1.90 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	29.0 kJ/mÂ² @Temperature 23.0 Â°C	13.8 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U
Impact Test	1.00 J	0.738 ft-lb	Multiaxial Impact; ISO 6603
	5.00 J @Temperature 23.0 Â°C	3.69 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Energy @ peak; ASTM D 3763
Coefficient of Friction, Dynamic	0.25	0.25	ASTM D 3702 Modified
Coefficient of Friction, Static	0.16	0.16	ASTM D 3702 Modified
K (wear) Factor	18.1 x 10 <sup>-8</sup> mmÂ³/N-M	9.00 x 10 <sup>-10</sup> inÂ³- min/ft-lb-hr	Washer; ASTM D 3702 Modified

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	163 Â°C @Thickness 3.20 mm	325 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	99.0 Â°C	210 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	99.0 Â°C @Thickness 3.20 mm	210 Â°F @Thickness 0.126 in	unannealed; ASTM D 648

## 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