

## SABIC Innovative Plastics LNP LUBRICOMP KAL22 Acetal Copolymer

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

### Material Notes:

LNP\* LUBRICOMP\* KAL22 is a compound based on Acetal Copolymer resin containing 10% PTFE, 10% Aramid Fiber. Added feature of this material is: Wear Resistant.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-LUBRICOMP-KAL22-Acetal-Copolymer.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-KAL22-Acetal-Copolymer.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.46 g/cc	1.46 g/cc	ASTM D792
Density	1.45 g/cc	0.0524 lb/in <sup>3</sup>	ISO 1183
Linear Mold Shrinkage, Flow	0.018 - 0.022 cm/cm	0.018 - 0.022 in/in	on Tensile Bar; SABIC Method
	>= 0.020 cm/cm @Time 86400 sec	>= 0.020 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.020 - 0.040 cm/cm	0.020 - 0.040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	56.0 MPa	8120 psi	5 mm/min; ISO 527
	58.0 MPa	8410 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	57.0 MPa	8270 psi	5 mm/min; ISO 527
Elongation at Break	7.4 %	7.4 %	Type I, 5 mm/min; ASTM D638
	7.4 %	7.4 %	5 mm/min; ISO 527
Elongation at Yield	6.3 %	6.3 %	5 mm/min; ISO 527
	6.5 %	6.5 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	3.45 GPa	500 ksi	1 mm/min; ISO 527
	3.63 GPa	526 ksi	5 mm/min; ASTM D638
Flexural Strength	77.0 MPa	11200 psi	ISO 178
Flexural Modulus	3.07 GPa	445 ksi	2 mm/min; ISO 178
	3.09 GPa	448 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.540 J/cm	1.01 ft-lb/in	ASTM D256

Mechanical Properties <i>Izod Impact, Unnotched</i>	Metric <i>5.12 J/cm</i>	English <i>5.12 ft-lb/in</i>	Comments <i>ASTM D4812</i>
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)	32.0 kJ/m <sup>2</sup>	15.2 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
Coefficient of Friction, Dynamic	0.23	0.23	ASTM D3702 Modified
Coefficient of Friction, Static	0.16	0.16	ASTM D3702 Modified
K (wear) Factor	16.1 x 10 <sup>-8</sup> mm <sup>3</sup> /N-M	8.00 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)	162 Â°C @Thickness 3.20 mm	324 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	87.0 Â°C	189 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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