

## SABIC Innovative Plastics LNP LUBRICOMP KL003LH Acetal

Category : Polymer , Thermoplastic , Acetal (POM)

**Material Notes:**

LNP\* LUBRICOMP\* KL003LH is an Acetal based compound containing 15% PTFE. Added features of this grade include: Low Extractable, Healthcare, Wear Resistant.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-LUBRICOMP-KL003LH-Acetal.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-KL003LH-Acetal.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.49 g/cc	1.49 g/cc	ASTM D792
Density	1.48 g/cc	0.0535 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption	0.190 %	0.190 %	50% RH, 24 hrs; ASTM D570
	0.300 %	0.300 %	23 <sup>o</sup> C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	>= 0.020 cm/cm	>= 0.020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
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	47.0 MPa	6820 psi	Type I, 5 mm/min; ASTM D638
	49.0 MPa	7110 psi	5 mm/min; ISO 527
Tensile Strength, Yield	50.0 MPa	7250 psi	5 mm/min; ISO 527
	52.0 MPa	7540 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	27 %	27 %	Type I, 5 mm/min; ASTM D638
	32 %	32 %	5 mm/min; ISO 527
Elongation at Yield	12 %	12 %	Type I, 5 mm/min; ASTM D638
	13 %	13 %	5 mm/min; ISO 527
Tensile Modulus	2.52 GPa	365 ksi	1 mm/min; ISO 527
	2.58 GPa	374 ksi	50 mm/min; ASTM D638
Flexural Strength	64.0 MPa	9280 psi	ISO 178
Flexural Modulus	2.21 GPa	321 ksi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	Metric 2.21 GPa	English 321 ksi	Comments 2 mm/min; ISO 178
Izod Impact, Notched	0.410 J/cm	0.768 ft-lb/in	ASTM D256
Izod Impact, Unnotched	8.71 J/cm	16.3 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	4.00 kJ/m <sup>2</sup>	1.90 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	59.0 kJ/m <sup>2</sup>	28.1 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
Dart Drop, Total Energy	4.00 J @Temperature 23.0 Â°C	2.95 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	1.00 J	0.738 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.27	0.27	ASTM D3702 Modified
Coefficient of Friction, Static	0.13	0.13	ASTM D3702 Modified
K (wear) Factor	28.2 x 10 <sup>-8</sup> mm <sup>3</sup> /N-M	14.0 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	132 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	73.3 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	124 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	68.9 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	148 Â°C	298 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	151 Â°C @Thickness 3.20 mm	304 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	85.0 Â°C	185 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	87.0 Â°C @Thickness 3.20 mm	189 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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