

SABIC Innovative Plastics LNP LUBRICOMP KL004U Acetal Copolymer

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Copolymer, Unreinforced

Material Notes:

LNP LUBRICOMP* KL004U is a compound based on Acetal Copolymer resin containing 20% PTFE. Added features of this material include:
Wear Resistant, UV Stabilized.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-KL004U-Acetal-Copolymer.php

Physical Properties	Metric	English	Comments
Density	1.50 g/cc	0.0542 lb/in ³	ASTM D792
	1.50 g/cc	0.0542 lb/in ³	ISO 1183
Moisture Absorption	0.150 %	0.150 %	50% RH, 24 hrs; ASTM D570
	0.260 %	0.260 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0197 - 0.025 cm/cm	0.0197 - 0.025 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.020 - 0.025 cm/cm	0.020 - 0.025 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0197 - 0.025 cm/cm	0.0197 - 0.025 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.020 - 0.025 cm/cm	0.020 - 0.025 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	46.0 MPa	6670 psi	ISO 527
	50.0 MPa	7250 psi	ASTM D638
Tensile Strength, Yield	47.0 MPa	6820 psi	ISO 527
	51.0 MPa	7400 psi	ASTM D638
Elongation at Break	17.9 %	17.9 %	ASTM D638
	22.7 %	22.7 %	ISO 527
Elongation at Yield	9.6 %	9.6 %	ISO 527
	11.2 %	11.2 %	ASTM D638

Tensile Modulus Mechanical Properties	2.13 GPa Metric	309 ksi English	50 mm/min; ASTM D638 Comments
	2.40 GPa	348 ksi	1 mm/min; ISO 527
Flexural Strength	75.0 MPa	10900 psi	ASTM D790
	79.0 MPa	11500 psi	ISO 178
Flexural Modulus	2.06 GPa	299 ksi	ASTM D790
	2.60 GPa	377 ksi	ISO 178
Izod Impact, Notched	0.420 J/cm	0.787 ft-lb/in	ASTM D256
Izod Impact, Unnotched	6.51 J/cm	12.2 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	4.00 kJ/m ²	1.90 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	45.0 kJ/m ²	21.4 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	6.00 J	4.43 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Coefficient of Friction, Dynamic	0.29	0.29	ASTM D3702 Modified
Coefficient of Friction, Static	0.15	0.15	ASTM D3702 Modified
K (wear) Factor	30.2 x 10 ⁻⁸ mm ³ /N-M	15.0 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	110 Åµm/m-Å°C	61.1 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	110 Åµm/m-Å°C	61.1 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
CTE, linear, Transverse to Flow	111 Åµm/m-Å°C	61.7 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	111 Åµm/m-Å°C	61.7 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	157 Å°C	315 Å°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	98.0 Å°C	208 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Åf

Thermal Properties	Metric	English	Comments
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed, ASTM D548

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