

SABIC Innovative Plastics LNP LUBRICOMP KCL36 Acetal Copoly (Asia Pacific)

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

Material Notes:

LNP* Lubricomp* KCL36 is a compound based on Acetal Copolymer resin containing PTFE, Carbon Fiber. Added features of this material include: Internally Lubricated, Electrically Conductive.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-KCL36-Acetal-Copoly-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.58 g/cc	0.0571 lb/in ³	ASTM D792
	1.58 g/cc	0.0571 lb/in ³	ISO 1183
Moisture Absorption	0.100 %	0.100 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0069 cm/cm	0.0069 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0060 - 0.0080 cm/cm	0.0060 - 0.0080 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.010 - 0.012 cm/cm	0.010 - 0.012 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.011 cm/cm	0.011 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	117 MPa	17000 psi	ASTM D638
	117 MPa	17000 psi	ISO 527
Tensile Strength, Yield	117 MPa	17000 psi	ASTM D638
	117 MPa	17000 psi	ISO 527
Elongation at Break	1.4 %	1.4 %	ASTM D638
	1.4 %	1.4 %	ISO 527
Elongation at Yield	1.4 %	1.4 %	ASTM D638
	1.4 %	1.4 %	ISO 527
Tensile Modulus	17.32 GPa	2512 ksi	1 mm/min; ISO 527

Mechanical Properties	20.68 GPa Metric	2999 ksi English	50 mm/min; ASTM D638 Comments
Flexural Strength	179 MPa	26000 psi	ASTM D790
	179 MPa	26000 psi	ISO 178
Flexural Modulus	16.54 GPa	2399 ksi	ASTM D790
	17.3 GPa	2510 ksi	ISO 178
Izod Impact, Notched	0.480 J/cm	0.899 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.80 J/cm	8.99 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)	27.0 kJ/m ²	12.8 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	9.00 J	6.64 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.38	0.38	ASTM D3702 Modified
Coefficient of Friction, Static	0.31	0.31	ASTM D3702 Modified
K (wear) Factor	127 x 10 ⁻⁸ mm ³ /N-M	63.0 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	43.0 Åµm/m-Å°C	23.9 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	43.2 Åµm/m-Å°C	24.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
CTE, linear, Transverse to Flow	27.0 Åµm/m-Å°C	15.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	27.0 Åµm/m-Å°C	15.0 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)	163 Å°C	325 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	162 Å°C	324 Å°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

Thermal Properties T _g at 1.8 MPa (264 psi)	Metric	English	Comments
	160 Â°C	320 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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