

SABIC Innovative Plastics LNP LUBRICOMP KCL34A Acetal Homopolymer (Asia Pacific)

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Homopolymer, Carbon Fiber Reinforced

Material Notes:

LNP* Lubricomp* KCL34A is a compound based on Acetal Homopolymer 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-KCL34A-Acetal-Homopolymer-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.55 g/cc	0.0560 lb/in ³	ISO 1183
	1.56 g/cc	0.0564 lb/in ³	ASTM D792
Moisture Absorption	0.300 %	0.300 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0070 cm/cm	0.0070 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0073 cm/cm	0.0073 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.013 cm/cm	0.013 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.013 cm/cm	0.013 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	87.0 MPa	12600 psi	ASTM D638
	88.0 MPa	12800 psi	ISO 527
Tensile Strength, Yield	87.0 MPa	12600 psi	ASTM D638
	88.0 MPa	12800 psi	ISO 527
Elongation at Break	0.70 %	0.70 %	ASTM D638
	0.70 %	0.70 %	ISO 527
Elongation at Yield	0.70 %	0.70 %	ASTM D638
	0.70 %	0.70 %	ISO 527
Tensile Modulus	15.51 GPa	2250 ksi	1 mm/min; ISO 527

Mechanical Properties	Metric 17.23 GPa	English 2499 ksi	Comments 50 mm/min; ASTM D638
Flexural Strength	110 MPa	16000 psi	ASTM D790
	117 MPa	17000 psi	ISO 178
Flexural Modulus	13.1 GPa	1900 ksi	ASTM D790
	15.0 GPa	2180 ksi	ISO 178
Izod Impact, Notched	0.530 J/cm	0.993 ft-lb/in	ASTM D256
Izod Impact, Unnotched	2.67 J/cm	5.00 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	3.00 kJ/m ²	1.43 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	16.0 kJ/m ²	7.61 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	4.00 J	2.95 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	1.00 J	0.738 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.35	0.35	ASTM D3702 Modified
Coefficient of Friction, Static	0.32	0.32	ASTM D3702 Modified
K (wear) Factor	139 x 10 ⁻⁸ mm ³ /N-M	69.0 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	66.0 Åµm/m-Å°C	36.7 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	66.6 Åµm/m-Å°C	37.0 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)	175 Å°C	347 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	175 Å°C	347 Å°F	
			unannealed; ASTM D648

Thermal Properties	@Thickness 3.20 mm Metric	@Thickness 0.126 in English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	170 Å°C	338 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	171 Å°C	340 Å°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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