

SABIC Innovative Plastics LNP LUBRICOMP KFL23LH Acetal Copolymer

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Copolymer, 20% Glass Fiber Reinforced

Material Notes:

LNP LUBRICOMP* KFL23LH is a compound based on Acetal Copolymer resin containing 15% Glass Fiber, 10% PTFE. Added features of this material include: Wear Resistant, Low Extractable.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-KFL23LH-Acetal-Copolymer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.58 g/cc	1.58 g/cc	ASTM D792
Density	1.58 g/cc	0.0571 lb/in ³	ASTM D792
Moisture Absorption	0.210 %	0.210 %	50% RH, 24 hrs; ASTM D570
	0.340 %	0.340 %	23 ⁰ C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0090 - 0.020 cm/cm @Time 86400 sec	0.0090 - 0.020 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.010 - 0.030 cm/cm @Time 86400 sec	0.010 - 0.030 in/in @Time 24.0 hour	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	75.0 MPa	10900 psi	5 mm/min; ISO 527
	78.0 MPa	11300 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	1.7 %	1.7 %	5 mm/min; ISO 527
	1.8 %	1.8 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	6.72 GPa	975 ksi	50 mm/min; ASTM D638
	6.82 GPa	989 ksi	1 mm/min; ISO 527
Flexural Strength	107 MPa	15500 psi	1.3 mm/min, 50 mm span; ASTM D790
	108 MPa	15700 psi	ISO 178
Flexural Yield Strength	119 MPa	17300 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	5.74 GPa	833 ksi	1.3 mm/min, 50 mm span; ASTM D790
	5.90 GPa	856 ksi	2 mm/min; ISO 178

Izod Impact, Notched Mechanical Properties	0.510 J/cm Metric	0.955 ft-lb/in English	ASTM D256 Comments
Izod Impact, Unnotched	3.50 J/cm	6.56 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)	22.0 kJ/m ²	10.5 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	10.0 J @Temperature 23.0 Â°C	7.38 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	163 Â°C	325 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	163 Â°C @Thickness 3.20 mm	325 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	158 Â°C	316 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	161 Â°C @Thickness 3.20 mm	322 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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