

SABIC Innovative Plastics LNP LUBRICOMP KX06415 Acetal Copolymer

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

Material Notes:

LNP LUBRICOMP* KX06415 is a compound based on Acetal Copolymer resin containing 10% PTFE, 10% Aramid Powder. Added features of this material include: Easy Molding, Heat Stabilized, Wear Resistant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-KX06415-Acetal-Copolymer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.40 g/cc	1.40 g/cc	ASTM D792
Density	1.45 g/cc	0.0524 lb/in ³	ASTM D792
Moisture Absorption	0.210 %	0.210 %	50% RH, 24 hrs; ASTM D570
	0.350 %	0.350 %	23Â°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	>= 0.020 cm/cm @Time 86400 sec	>= 0.020 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.020 - 0.040 cm/cm @Time 86400 sec	0.020 - 0.040 in/in @Time 24.0 hour	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	39.0 MPa	5660 psi	5 mm/min; ISO 527
	41.0 MPa	5950 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	14 %	14 %	Type I, 5 mm/min; ASTM D638
	14 %	14 %	5 mm/min; ISO 527
Elongation at Yield	8.5 %	8.5 %	Type I, 5 mm/min; ASTM D638
	8.8 %	8.8 %	5 mm/min; ISO 527
Tensile Modulus	2.59 GPa	376 ksi	1 mm/min; ISO 527
	2.86 GPa	415 ksi	5 mm/min; ASTM D638
Flexural Strength	62.0 MPa	8990 psi	ISO 178
Flexural Modulus	2.42 GPa	351 ksi	2 mm/min; ISO 178
	2.43 GPa	352 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.360 J/cm	0.674 ft-lb/in	ASTM D256

Mechanical Properties	Metric	English	Comments
Izod Impact, Unnotched	3.67 J/cm	5.34 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	5.00 kJ/m ²	2.38 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	26.0 kJ/m ²	12.4 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	5.00 J @Temperature 23.0 Â°C	3.69 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	0.23	0.23	ASTM D3702 Modified
Coefficient of Friction, Static	0.16	0.16	ASTM D3702 Modified
K (wear) Factor	16.1 x 10 ⁻⁸ mm ³ /N-M	8.00 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	99.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	55.0 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	104 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	57.8 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	147 Â°C	297 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	155 Â°C @Thickness 3.20 mm	311 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	84.0 Â°C	183 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	94.0 Â°C @Thickness 3.20 mm	201 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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