

SABIC Innovative Plastics LNP Lubricomp KX99792 Acetal Copolymer

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Copolymer, Silicone Filled

Material Notes:

LNP* Lubricomp* KX99792 is a compound based on Acetal Copolymer resin containing Silicone. Added features of this material include: Internally Lubricated. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Lubricomp-KX99792-Acetal-Copolymer.php

Physical Properties	Metric	English	Comments
Density	1.32 g/cc	0.0477 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.027 - 0.031 cm/cm @Time 86400 sec	0.027 - 0.031 in/in @Time 24.0 hour	ISO 294
Linear Mold Shrinkage, Transverse	0.021 - 0.024 cm/cm @Time 86400 sec	0.021 - 0.024 in/in @Time 24.0 hour	ISO 294

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	38.0 MPa	5510 psi	ISO 527
Tensile Strength, Yield	39.0 MPa	5660 psi	ISO 527
Elongation at Break	30 %	30 %	ISO 527
Elongation at Yield	6.0 %	6.0 %	ISO 527
Tensile Modulus	2.07 GPa	300 ksi	1 mm/min; ISO 527
Flexural Strength	48.0 MPa	6960 psi	ISO 178
Flexural Modulus	1.70 GPa	247 ksi	ISO 178
Izod Impact, Notched (ISO)	6.00 kJ/m ² @Temperature 23.0 °C	2.86 ft-lb/in ² @Temperature 73.4 °F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	52.0 kJ/m ² @Temperature 23.0 °C	24.7 ft-lb/in ² @Temperature 73.4 °F	80*10*4; ISO 180/1U
Impact Test	1.00 J	0.738 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.20	0.20	ASTM D 3702 Modified
Coefficient of Friction, Static	0.10	0.10	ASTM D 3702 Modified
		1.00 x 10 ⁻¹⁰ in ³ -	

K (wear) Factor Mechanical Properties	2.01×10^{-9} mm³/N-M Metric	mm³/ft-lb-hr English	Washer: ASTM D 3702 Modified Comments
Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	71.0 °C	160 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af

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