

Polikim KESTLUB® Polyamide 6 + Lubricant

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

Kestlub® is a special type of cast polyamide ideal for bearings. It is produced by adding lubricants to cast polyamide through special processes. It performs extremely well in bearing applications as it is self-lubricated. Lubricants are homogenously dispersed making them inseparable out of the material. Lubricant additives do not leak out even in toughest operating conditions. Machining does not alter this quality. Lubrication keeps the coefficient of friction very low during operation and thus prevents heating up, extending component operation life. Kestlub® should be used in applications where dimensional stability and weatherability of Kestamid® are questionable. As lubricant additives fill up pores, humidity and water absorption are reduced; sustaining dimensional stability. In high pressures and bearing applications, solid lubricant does not leak out. Information provided by Polikim Polymer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polikim-KESTLUB-Polyamide-6-Lubricant.php

Physical Properties	Metric	English	Comments
Density	1.15 g/cc	0.0415 lb/in ³	ISO 1183
Water Absorption at Saturation	5.0 %	5.0 %	ISO 62

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	84	84	ISO 868
Tensile Strength, Ultimate	78.5 MPa	11400 psi	ISO 527
Elongation at Break	>= 20 %	>= 20 %	ISO 527
Tensile Modulus	4.00 GPa	580 ksi	ISO 527
Compressive Strength	93.2 MPa	13500 psi	ISO 604
Compressive Modulus	2.60 GPa	377 ksi	ISO 604
Izod Impact, Notched (ISO)	6.00 kJ/m ²	2.86 ft-lb/in ²	ISO 180
Charpy Impact Unnotched	NB	NB	ISO 179
Coefficient of Friction	0.080	0.080	
K Factor (Wear Factor)	0.020	0.020	[mg/km]
K (wear) Factor	25.0 x 10 ⁻⁸ mm ³ /N-M	12.4 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	

Thermal Properties	Metric	English	Comments
CTE, linear	80.0 µm/m-°C	44.4 µin/in-°F	ISO 11359

Melting Point Thermal Properties	220 °C Metric	428 °F English	Comments
Maximum Service Temperature, Air	110 °C	230 °F	continuous
	170 °C	338 °F	short term

Electrical Properties	Metric	English	Comments
Volume Resistivity	$\geq 1.00 \times 10^{14}$ ohm-cm	$\geq 1.00 \times 10^{14}$ ohm-cm	ISO 60093
Surface Resistance	$\geq 1.00 \times 10^{13}$ ohm	$\geq 1.00 \times 10^{13}$ ohm	ISO 60093
Dielectric Constant	3.7	3.7	ISO 60250
Dielectric Strength	25.0 kV/mm	635 kV/in	ISO 50243

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