

Nylacast Nylube MO Cast Nylon 6, Lubricated (Blended Solid and Liquid Lubricant), MoS2 Filled

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, MoS2 Filled

Material Notes:

The combined Nylube lubrication system incorporating fine particles of molybdenum disulphide provides enhanced load bearing capabilities while retaining Nylube's excellent frictional characteristics. Information provided by Nylacast Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Nylacast-Nylube-MO-Cast-Nylon-6-Lubricated-Blended-Solid-and-Liquid-Lubricant-MoS2-Filled.php

Physical Properties	Metric	English	Comments
Density	1.145 g/cc	0.04137 lb/in ³	method A; ISO 1183:1987

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	85	85	ISO 868:2003
Tensile Strength, Yield	85.0 MPa	12300 psi	Type 1B, 50mm/min; ISO 527-1/2:1993
Elongation at Break	>= 20 %	>= 20 %	Type 1B, 50mm/min; ISO 527-1/2:1993
Tensile Modulus	4.20 GPa	609 ksi	Type 1B, 50mm/min; ISO 527-1/2:1993
Flexural Strength	110 MPa	16000 psi	1.5mm/min; ISO 178:2001
Flexural Modulus	3.50 GPa	508 ksi	1.5mm/min; ISO 178:2001
Compressive Strength	100 MPa	14500 psi	Type B, 5mm/min; ISO 604:2002
Compressive Modulus	2.80 GPa	406 ksi	Type B, 5mm/min; ISO 604:2002
Izod Impact, Notched (ISO)	6.00 kJ/m ²	2.86 ft-lb/in ²	Type A; ISO 180:2000
Coefficient of Friction, Dynamic	0.12 @Pressure 1.75 MPa	0.12 @Pressure 254 psi	31.4m/min
K (wear) Factor	91.0 x 10 ⁻⁸ mm ³ /N-M @Pressure 1.75 MPa	45.2 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr @Pressure 254 psi	31.4m/min

Thermal Properties	Metric	English	Comments
CTE, linear	80.0 µm/m-°C @Temperature 23.0 - 55.0 °C	44.4 µin/in-°F @Temperature 73.4 - 131 °F	ISO 11359-2:1999

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	115 °C @Time 1.80e+7 sec	239 °F @Time 5000 hour	Continuous
Minimum Service Temperature, Air	-100 °C	-148 °F	Intermittent
	-40.0 °C	-40.0 °F	Continuous
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Volume Resistivity	5.00e+15 ohm-cm	5.00e+15 ohm-cm	IEC 60093:1980-01
Surface Resistance	5.00e+12 ohm	5.00e+12 ohm	IEC 60093:1980-01
Dielectric Constant	3.7 @Frequency 1.00e+6 Hz	3.7 @Frequency 1.00e+6 Hz	IEC 60250:1969-01
	4.0 @Frequency 100 Hz	4.0 @Frequency 100 Hz	IEC 60250:1969-01
Dielectric Strength	29.0 kV/mm	737 kV/in	IEC 60243-1:1998-01
Comparative Tracking Index	604 V	604 V	IEC 60112:2003-01

Descriptive Properties	Value	Comments
Color	Black	
Wear Rate	0.08 mg/km	31.4m/min, 1.75MPa

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