

## Nylacast Nylube Cast Nylon 6, Lubricated (Blended Solid and Liquid Lubricant)

Category : Polymer , Thermoplastic , Nylon , Nylon 6

### Material Notes:

This supreme wear resistant grade contains a combined liquid/solid lubricant system, which allows for a coefficient of friction as low as 0.08. The material has outstanding Pressure-Velocity capabilities and is particularly suited to dry running bearing applications throughout a wide load and speed range. Information provided by Nylacast Ltd.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Nylacast-Nylube-Cast-Nylon-6-Lubricated-Blended-Solid-and-Liquid-Lubricant.php](http://www.lookpolymers.com/polymer_Nylacast-Nylube-Cast-Nylon-6-Lubricated-Blended-Solid-and-Liquid-Lubricant.php)

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in <sup>3</sup>	method A; ISO 1183:1987

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	82 - 84	82 - 84	ISO 868:2003
Tensile Strength, Yield	75.0 - 85.0 MPa	10900 - 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	3.60 - 4.10 GPa	522 - 595 ksi	Type 1B, 50mm/min; ISO 527-1/2:1993
Flexural Strength	125 MPa	18100 psi	1.5mm/min; ISO 178:2001
Flexural Modulus	2.50 GPa	363 ksi	1.5mm/min; ISO 178:2001
Compressive Strength	130 MPa	18900 psi	Type B, 5mm/min; ISO 604:2002
Compressive Modulus	2.60 GPa	377 ksi	Type B, 5mm/min; ISO 604:2002
Izod Impact, Notched (ISO)	6.00 kJ/m <sup>2</sup>	2.86 ft-lb/in <sup>2</sup>	Type A; ISO 180:2000
Coefficient of Friction, Dynamic	0.080 @Pressure 1.75 MPa	0.080 @Pressure 254 psi	31.4m/min
K (wear) Factor	25.0 x 10 <sup>-8</sup> mm <sup>3</sup> /N-M @Pressure 1.75 MPa	12.4 x 10 <sup>-10</sup> in <sup>3</sup> -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

Melting Point Thermal Properties	221 °C Metric	430 °F English	Comments
Maximum Service Temperature, Air	180 °C	356 °F	Intermittent
	110 °C @Time 1.80e+7 sec	230 °F @Time 5000 hour	Continuous
Minimum Service Temperature, Air	-100 °C	-148 °F	Intermittent
	-40.0 °C	-40.0 °F	Continuous

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	IEC 60093:1980-01
Surface Resistance	1.00e+12 ohm	1.00e+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	25.0 kV/mm	635 kV/in	IEC 60243-1:1998-01
Comparative Tracking Index	600 V	600 V	IEC 60112:2003-01

Descriptive Properties	Value	Comments
Color	Red, Black, Natural	
Wear Rate	0.02 mg/km	31.4m/min, 1.75MPa

## Contact Songhan Plastic Technology Co.,Ltd.

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