

Nylacast Oilon Cast Nylon 6, Lubricated (Lubricant Oil Filled)

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

This exceptional oil-loaded nylon features a complex blended oil lubrication system, uniformly distributed throughout the product, that guarantees constant performance over the whole service life. Excellent sliding frictional properties, abrasion resistance and stick/slip performance make this product a first choice for unlubricated moving parts. Information provided by Nylacast Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Nylacast-Oilon-Cast-Nylon-6-Lubricated-Lubricant-Oil-Filled.php

Physical Properties	Metric	English	Comments
Density	1.138 g/cc	0.04111 lb/in ³	method A; ISO 1183:1987

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	82 - 84	82 - 84	ISO 868:2003
Tensile Strength, Yield	70.0 - 75.0 MPa	10200 - 10900 psi	Type 1B, 50mm/min; ISO 527-1/2:1993
Elongation at Break	>= 30 %	>= 30 %	Type 1B, 50mm/min; ISO 527-1/2:1993
Tensile Modulus	3.60 GPa	522 ksi	Type 1B, 50mm/min; ISO 527-1/2:1993
Flexural Strength	100 MPa	14500 psi	1.5mm/min; ISO 178:2001
Flexural Modulus	3.50 GPa	508 ksi	1.5mm/min; ISO 178:2001
Compressive Strength	95.0 MPa	13800 psi	Type B, 5mm/min; ISO 604:2002
Compressive Modulus	2.50 GPa	363 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	0.15 @Pressure 1.75 MPa	0.15 @Pressure 254 psi	31.4m/min
K (wear) Factor	120 x 10 ⁻⁸ mm ³ /N-M @Pressure 1.75 MPa	59.6 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

Melting Point Thermal Properties	221 °C Metric	430 °F English	Comments
Maximum Service Temperature, Air	170 °C	338 °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
Flammability, UL94	HB	HB	

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	Green	
Wear Rate	0.11 mg/km	31.4m/min, 1.75MPa

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China