

Nylacast Nylube GF Cast Nylon 6, Lubricated (Blended Solid and Liquid Lubricant), Glass Filled

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Glass Fiber/Solid Lube Filled

Material Notes:

For applications requiring higher compressive strength the NYLUBE GF masterbatch incorporates hollow glass ovule, designed to float and evenly distribute through the polymerising polymer. The glass additive allows the material to operate at higher maximum service temperatures while the wax counteracts the deteriorating surface slip characteristics making this product an outstanding abrasion and temperature resistant material at high loads. Information provided by Nylacast Ltd.

Order this product through the following link:

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

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

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	70.0 MPa	10200 psi	Type 1B, 50mm/min; ISO 527-1/2:1993
Elongation at Break	>= 10 %	>= 10 %	Type 1B, 50mm/min; ISO 527-1/2:1993
Tensile Modulus	3.00 GPa	435 ksi	Type 1B, 50mm/min; ISO 527-1/2:1993
Flexural Strength	115 MPa	16700 psi	1.5mm/min; ISO 178:2001
Flexural Modulus	3.00 GPa	435 ksi	1.5mm/min; ISO 178:2001
Compressive Strength	105 MPa	15200 psi	Type B, 5mm/min; ISO 604:2002
Compressive Modulus	3.00 GPa	435 ksi	Type B, 5mm/min; ISO 604:2002
Izod Impact, Notched (ISO)	4.50 kJ/m ²	2.14 ft-lb/in ²	Type A; ISO 180:2000

Thermal Properties	Metric	English	Comments
CTE, linear	80.0 µm/m-°C	44.4 µin/in-°F	ISO 11359-2:1999
	@Temperature 23.0 - 55.0 °C	@Temperature 73.4 - 131 °F	
Melting Point	220 °C	428 °F	
Maximum Service Temperature, Air	190 °C	374 °F	Intermittent
	120 °C	248 °F	Continuous
	@Time 1.80e+7 sec	@Time 5000 hour	

Thermal Properties	Metric	English	Comments
Temperature, Air	-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	3.7	IEC 60250:1969-01
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	4.0	4.0	IEC 60250:1969-01
	@Frequency 100 Hz	@Frequency 100 Hz	
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	Black	

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