

Nylacast Moly Cast Nylon 6, MoS2 Filled

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

Material Notes:

Nylacast Moly is part of the Cast Nylon 6 family. Its improved crystallization occurs by the addition of Molybdenum Disulphide. It includes MoS2, which is an extremely effective self dry lubricant which improves the properties of wear and abrasion resistances, combined with lower water absorption. Information provided by Nylacast Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Nylacast-Moly-Cast-Nylon-6-MoS2-Filled.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	method A; ISO 1183:1987
Water Absorption	0.20 %	0.20 %	Immersion; ISO 62:1999
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	80 - 82	80 - 82	ISO 868:2003
Tensile Strength, Yield	79.0 - 85.0 MPa	11500 - 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	3.70 GPa	537 ksi	Type 1B, 50mm/min; ISO 527-1/2:1993
Flexural Strength	110 MPa	16000 psi	1.5mm/min; ISO 178:2001
Flexural Modulus	3.20 GPa	464 ksi	1.5mm/min; ISO 178:2001
Compressive Strength	100 - 145 MPa	14500 - 21000 psi	Type B, 5mm/min; ISO 604:2002
Compressive Modulus	2.70 GPa	392 ksi	Type B, 5mm/min; ISO 604:2002
Izod Impact, Notched (ISO)	5.39 kJ/m ²	2.56 ft-lb/in ²	Type A; ISO 180:2000
Coefficient of Friction, Dynamic	0.25	0.25	31.4m/min
	@Pressure 1.75 MPa	@Pressure 254 psi	

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	223 °C	433 °F	

Thermal Properties	Metric	English	Comments
Temperature, Air	105 °C	221 °F	Continuous
	@Time 1.80e+7 sec	@Time 5000 hour	
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	3.7	IEC 60250:1969-01
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	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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