

Nylacast Cast Nylon 6, Glass Filled

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Glass/Mineral Reinforced

Material Notes:

Information provided by Nylacast Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Nylacast-Cast-Nylon-6-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	60.0 - 70.0 MPa	8700 - 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	95.0 MPa	13800 psi	1.5mm/min; ISO 178:2001
Flexural Modulus	2.70 GPa	392 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)	5.60 kJ/m ²	2.66 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	225 °C	437 °F	
Maximum Service Temperature, Air	190 °C	374 °F	Intermittent
	120 °C	248 °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

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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