

Nylacast Impact Nylon 6, Impact Grade

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Impact Grade

Material Notes:

Nylacast Impact has been designed for applications that have a high impact resistance and noise reduction capabilities. It works more effectively in applications where there are high stress. It also has good mechanical, thermal and chemical resistance properties. Information provided by Nylacast Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Nylacast-Impact-Nylon-6-Impact-Grade.php

Physical Properties	Metric	English	Comments
Density	1.11 g/cc	0.0401 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	3.25 GPa	471 ksi	Type 1B, 50mm/min; ISO 527-1/2:1993
Flexural Strength	93.5 MPa	13600 psi	1.5mm/min; ISO 178:2001
Flexural Modulus	2.40 GPa	348 ksi	1.5mm/min; ISO 178:2001
Compressive Strength	120 MPa	17400 psi	Type B, 5mm/min; ISO 604:2002
Compressive Modulus	2.40 GPa	348 ksi	Type B, 5mm/min; ISO 604:2002
Izod Impact, Notched (ISO)	13.9 kJ/m ²	6.61 ft-lb/in ²	Type A; ISO 180:2000

Thermal Properties	Metric	English	Comments
CTE, linear	50.0 - 80.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	27.8 - 44.4 $\mu\text{in}/\text{in}\cdot\text{°F}$	ISO 11359-2:1999
	@Temperature 23.0 - 55.0 °C	@Temperature 73.4 - 131 °F	
Melting Point	219.47 °C	427.05 °F	
Maximum Service Temperature, Air	150 °C	302 °F	Intermittent
	100 °C	212 °F	Continuous
Minimum Service Temperature, Air	@Time 1.80e+7 sec	@Time 5000 hour	
	-100 °C	-148 °F	Intermittent
	-40.0 °C	-40.0 °F	Continuous

Thermal Properties	Metric	English	Comments
Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+17 ohm-cm	1.00e+17 ohm-cm	IEC 60093:1980-01
Surface Resistance	1.00e+15 ohm	1.00e+15 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	Grey	

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