

Global EPP PA 6C IMPACT Cast Polyamide 6 + Plasticizer

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Cast

Material Notes:

Cast nylons are generally accepted as the primary engineering polymer, suitable for virtually any plain bearing application. By varying the conditions of polymerisation the mechanical properties of cast nylons may be altered to suit specific applications, and the performance of the basic polymer can be enhanced with the addition of various additives, fillers, lubricants and colorants. Key characteristics: Unequaled formulation options and profile range Excellent mechanical, thermal and chemical resistance Excellent PV and load bearing capabilities Excellent wear and abrasion resistance Good dimensional stability, largely free from internal stresses FDA compliant grades available This grade was specifically developed for applications requiring high impact resistance. Other important characteristics are improved insensitivity against stresses, sharp edges, notches and scratches. It also exhibits improved noise reduction and great load bearing capabilities.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Global-EPP-PA-6C-IMPACT-Cast-Polyamide-6-Plasticizer.php

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

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	80	80	ISO 868:2003
Tensile Strength at Break	60.0 MPa	8700 psi	Sample Type 1B, 50mm/min; ISO 527-1/2:1993
Elongation at Break	>= 30 %	>= 30 %	Sample Type 1B, 50 mm/min; ISO 527-1/2:1993
Modulus of Elasticity	3.20 GPa	464 ksi	Sample Type 1B, 50 mm/min; ISO 527-1/2:1993
Flexural Strength	85.0 MPa	12300 psi	1.5 mm/min; ISO 178:2001
Flexural Modulus	2.40 GPa	348 ksi	1.5 mm/min; ISO 178:2001
Compressive Strength	90.0 MPa	13100 psi	Sample Type B, 5 mm/min; ISO 604:2002
Compressive Modulus	1.80 GPa	261 ksi	Sample Type A, 1 mm/min; ISO 604:2002
Izod Impact, Notched (ISO)	10.0 kJ/m ²	4.76 ft-lb/in ²	Sample Type A; ISO 180:2000

Thermal Properties	Metric	English	Comments
CTE, linear	80.0 $\mu\text{m/m}\cdot\text{Å}^\circ\text{C}$ @Temperature 23.0 - 55.0 $\text{Å}^\circ\text{C}$	44.4 $\mu\text{in/in}\cdot\text{Å}^\circ\text{F}$ @Temperature 73.4 - 131 $\text{Å}^\circ\text{F}$	ISO 11359-2:1999

Melting Point Thermal Properties	200 Å°C Metric	392 Å°F English	Comments
Maximum Service Temperature, Air	100 Å°C	212 Å°F	Continuous
	150 Å°C	302 Å°F	Intermittent
Minimum Service Temperature, Air	-100 Å°C	-148 Å°F	Intermittent
	-40.0 Å°C	-40.0 Å°F	Continuous
Flammability, UL94	HB	HB	IEC 60695-11-10:2003-08

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
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	Gray	

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