

Global EPP PA 6C OFN Cast Polyamide 6 + Blended Liquid Lubricant

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 A complex blended oil lubrication system, uniformly distributed throughout the product guarantees constant performance over the whole service life of this exceptional oil-loaded nylon. Excellent sliding frictional properties, abrasion resistance and stick/slip performance make this product a first choice for unlubricated moving parts.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Global-EPP-PA-6C-OFN-Cast-Polyamide-6-Blended-Liquid-Lubricant.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	Test Method A; ISO 1183:1987
Water Absorption at Saturation	4.0 %	4.0 %	ISO 62:1999

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	83	83	ISO 868:2003
Tensile Strength at Break	75.0 MPa	10900 psi	Sample Type 1B, 50mm/min; ISO 527-1/2:1993
Elongation at Break	>= 25 %	>= 25 %	Sample Type 1B, 50 mm/min; ISO 527-1/2:1993
Modulus of Elasticity	3.80 GPa	551 ksi	Sample Type 1B, 50 mm/min; ISO 527-1/2:1993
Flexural Strength	95.0 MPa	13800 psi	1.5 mm/min; ISO 178:2001
Flexural Modulus	3.00 GPa	435 ksi	1.5 mm/min; ISO 178:2001
Compressive Strength	95.0 MPa	13800 psi	Sample Type B, 5 mm/min; ISO 604:2002
Compressive Modulus	2.40 GPa	348 ksi	Sample Type A, 1 mm/min; ISO 604:2002
Izod Impact, Notched (ISO)	5.80 kJ/m ²	2.76 ft-lb/in ²	Sample Type A; ISO 180:2000
Coefficient of Friction, Dynamic	0.19	0.19	31.4 m/min
	@Pressure 1.75 MPa	@Pressure 254 psi	
K (wear) Factor	170 x 10 ⁻⁸ mm ³ /N-M	84.4 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	31.4 m/min

Mechanical Properties	@Pressure 1.75 MPa Metric	English @Pressure 254 psi	Comments
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Thermal Properties	Metric	English	Comments
CTE, linear	80.0 Åµm/m-Å°C @Temperature 23.0 - 55.0 Å°C	44.4 Åµin/in-Å°F @Temperature 73.4 - 131 Å°F	ISO 11359-2:1999
Melting Point	220 Å°C	428 Å°F	
Maximum Service Temperature, Air	110 Å°C	230 Å°F	Continuous
	170 Å°C	338 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
	4.0 @Frequency 100 Hz	4.0 @Frequency 100 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	Green and Yellow	

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