

Global EPP PA 6C WFN Cast Polyamide 6 + Wax

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: Unequalled 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 supreme abrasion resistant grade contains a blended wax lubrication system, uniformly distributed to radically improve wear resistance and coefficient of friction characteristics. The material has excellent mechanical, thermal and electrical properties and exhibits outstanding pressure velocity capabilities. WFN is particular suited to dry running bearing applications.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	1.145 g/cc	0.04137 lb/in ³	Test Method A; ISO 1183:1987
Water Absorption	0.30 % @Temperature 23.0 Â°C, Time 86400 sec	0.30 % @Temperature 73.4 Â°F, Time 24.0 hour	Immersion; ISO 62:1999 (modified)
Water Absorption at Saturation	5.3 %	5.3 %	ISO 62:1999

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	84	84	ISO 868:2003
Tensile Strength at Break	80.0 MPa	11600 psi	Sample Type 1B, 50mm/min; ISO 527-1/2:1993
Elongation at Break	>= 20 %	>= 20 %	Sample Type 1B, 50 mm/min; ISO 527-1/2:1993
Modulus of Elasticity	4.00 GPa	580 ksi	Sample Type 1B, 50 mm/min; ISO 527-1/2:1993
Flexural Strength	105 MPa	15200 psi	1.5 mm/min; ISO 178:2001
Flexural Modulus	3.20 GPa	464 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	2.60 GPa	377 ksi	Sample Type A, 1 mm/min; ISO 604:2002
Izod Impact, Notched (ISO)	6.00 kJ/m ²	2.86 ft-lb/in ²	Sample Type A; ISO 180:2000

Mechanical Properties	Metric	English	Comments
	@Pressure 1.75 MPa	@Pressure 254 psi	
K (wear) Factor	70.0 x 10 ⁻⁸ mm ³ /N-M	34.7 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	31.4 m/min
	@Pressure 1.75 MPa	@Pressure 254 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	80.0 Åµm/m-Å°C	44.4 Åµin/in-Å°F	ISO 11359-2:1999
	@Temperature 23.0 - 55.0 Å°C	@Temperature 73.4 - 131 Å°F	
Melting Point	220 Å°C	428 Å°F	
Maximum Service Temperature, Air	110 Å°C	230 Å°F	Continuous
	180 Å°C	356 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	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	Red and Grey	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China