

Manifattura Cattaneo PA 6 G Nylon

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Unreinforced

Material Notes:

Manifattura Cattaneo products are available in semi-finished forms such as bars, profiles, sheets and plates. Information provided by Manifattura Cattaneo s.p.a.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Manifattura-Cattaneo-PA-6-G-Nylon.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	2.4 % @Temperature 23.0 Â°C	2.4 % @Temperature 73.4 Â°F	50% RH; ISO 62
Water Absorption at Saturation	8.0 %	8.0 %	ISO 62

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	88	88	ISO 2039-2
Tensile Strength, Yield	60.0 MPa	8700 psi	Conditioned 50% RH; ISO 527
	80.0 MPa	11600 psi	Dried; ISO 527
Elongation at Break	>= 40 %	>= 40 %	Dried; ISO 527
	>= 100 %	>= 100 %	Conditioned 50% RH; ISO 527
Tensile Modulus	1.80 GPa	261 ksi	Conditioned 50% RH; ISO 527
	3.10 GPa	450 ksi	Dried; ISO 527
Flexural Strength	140 MPa	20300 psi	
	160 MPa	23200 psi	
Compressive Yield Strength	26.0 MPa @Strain 1.00 %	3770 psi @Strain 1.00 %	ISO 604
Charpy Impact Unnotched	NB	NB	ISO 179
Charpy Impact, Notched	0.400 J/cm ²	1.90 ft-lb/in ²	Dried; ISO 179
	1.50 J/cm ²	7.14 ft-lb/in ²	Conditioned 50% RH; ISO 179
Coefficient of Friction, Dynamic	0.24	0.24	on polished steel; MPC Test
Coefficient of Friction, Static			on polished steel; MPC Test

Mechanical Properties	0.21 Metric	0.21 English	Comments
K Factor (Wear Factor)	7.5	7.5	Aµm/s. PV = 0.1 MPa-m/s; max P = 26 MPa; MPC Test

Thermal Properties	Metric	English	Comments
CTE, linear	80.0 Åµm/m-Å°C @Temperature 23.0 - 100 Å°C	44.4 Åµin/in-Å°F @Temperature 73.4 - 212 Å°F	ASTM D696
Thermal Conductivity	0.290 W/m-K	2.01 BTU-in/hr-ftÅ²-Å°F	DOM 52612
Maximum Service Temperature, Air	105 Å°C	221 Å°F	
Deflection Temperature at 1.8 MPa (264 psi)	80.0 Å°C	176 Å°F	ISO 75
Minimum Service Temperature, Air	-40.0 Å°C	-40.0 Å°F	
Oxygen Index	25 %	25 %	ISO 4589

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+14 ohm-cm	>= 1.00e+14 ohm-cm	IEC 60093
Surface Resistance	>= 1.00e+12 ohm	>= 1.00e+12 ohm	IEC 60094
Dielectric Constant	3.7 @Frequency 1.00e+6 Hz	3.7 @Frequency 1.00e+6 Hz	IEC 60250
Dielectric Strength	17.0 kV/mm @Thickness 2.00 mm	432 kV/in @Thickness 0.0787 in	IEC 60243
Dielectric Loss Index	0.050 @Frequency 1.00e+6 Hz	0.050 @Frequency 1.00e+6 Hz	IEC 60250

Compliance Properties	Metric	English	Comments
FDA	Yes	Yes	

Descriptive Properties	Value	Comments
Color	White	
UV Resistance	N	Dried
	Y	Conditioned 50% RH

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