

Manifattura Cattaneo PA 6.6 Nylon

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 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-66-Nylon.php

Physical Properties	Metric	English	Comments
Density	1.15 g/cc	0.0415 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	2.2 % @Temperature 23.0 Â°C	2.2 % @Temperature 73.4 Â°F	50% RH; ISO 62
Water Absorption at Saturation	6.5 %	6.5 %	ISO 62

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	88	88	ISO 2039-2
Tensile Strength, Yield	55.0 MPa	7980 psi	Conditioned 50% RH; ISO 527
	90.0 MPa	13100 psi	Dried; ISO 527
Elongation at Yield	>= 40 %	>= 40 %	Dried; ISO 527
	>= 100 %	>= 100 %	Conditioned 50% RH; ISO 527
Tensile Modulus	1.65 GPa	239 ksi	Conditioned 50% RH; ISO 527
	3.45 GPa	500 ksi	Dried; ISO 527
Compressive Yield Strength	25.0 MPa @Strain 1.00 %	3630 psi @Strain 1.00 %	ISO 604
Poissons Ratio	0.38	0.38	Dried
	0.45	0.45	Conditioned 50% RH
Charpy Impact Unnotched	NB	NB	ISO 179
Charpy Impact, Notched	0.450 J/cm ²	2.14 ft-lb/in ²	Dried; ISO 179
Coefficient of Friction, Dynamic	0.28	0.28	on polished steel; MPC Test
Coefficient of Friction, Static	0.20	0.20	on polished steel; MPC Test
	8.5	8.5	Âµm/s. PV = 0.1 MPa-m/s; max P =

K Factor (Wear Factor) Mechanical Properties	Metric	English	25 MPa: MPC Test Comments
Limiting Pressure Velocity	0.0900 MPa-m/sec	2570 psi-ft/min	without lubrication; MPC Test

Thermal Properties	Metric	English	Comments
CTE, linear	95.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	52.8 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	Conditioned 50% RH; ASTM D696
	80.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature 23.0 - 100 $\text{Å}^\circ\text{C}$	44.4 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature 73.4 - 212 $\text{Å}^\circ\text{F}$	Dried; ASTM D696
Thermal Conductivity	0.280 W/m-K	1.94 BTU-in/hr-ft Å^2 - $\text{Å}^\circ\text{F}$	DOM 52612
Maximum Service Temperature, Air	95.0 $\text{Å}^\circ\text{C}$	203 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	200 $\text{Å}^\circ\text{C}$	392 $\text{Å}^\circ\text{F}$	Dried; ISO 75
	230 $\text{Å}^\circ\text{C}$	446 $\text{Å}^\circ\text{F}$	Conditioned 50% RH; ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	80.0 $\text{Å}^\circ\text{C}$	176 $\text{Å}^\circ\text{F}$	Dried; ISO 75
	100 $\text{Å}^\circ\text{C}$	212 $\text{Å}^\circ\text{F}$	Conditioned 50% RH; ISO 75
Minimum Service Temperature, Air	-30.0 $\text{Å}^\circ\text{C}$	-22.0 $\text{Å}^\circ\text{F}$	
Flammability, UL94	V-2	V-2	
Oxygen Index	26 %	26 %	ISO 4589

Electrical Properties	Metric	English	Comments
Volume Resistivity	$\geq 1.00\text{e}+14$ ohm-cm	$\geq 1.00\text{e}+14$ ohm-cm	IEC 60093
Surface Resistance	$\geq 1.00\text{e}+12$ ohm	$\geq 1.00\text{e}+12$ ohm	IEC 60094
Dielectric Constant	3.8	3.8	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	18.0 kV/mm	457 kV/in	IEC 60243
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Dielectric Loss Index	0.060	0.060	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	

Compliance Properties	Metric	English	Comments
FDA	Yes	Yes	

Compliance Properties	Metric	English	Comments
Descriptive Properties		Value	Comments
Color		Ivory	
UV Resistance		N	

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