

Manifattura Cattaneo PA 6.6 30% GF Nylon, Glass Filled

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 30% Glass Fiber Filled

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-66-30-GF-Nylon-Glass-Filled.php

Physical Properties	Metric	English	Comments
Density	1.29 g/cc	0.0466 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	1.7 % @Temperature 23.0 Â°C	1.7 % @Temperature 73.4 Â°F	50% RH; ISO 62
Water Absorption at Saturation	5.5 %	5.5 %	ISO 62

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	76	76	ISO 2039-2
Tensile Strength at Break	75.0 MPa	10900 psi	Conditioned 50% RH; ISO 527
	100 MPa	14500 psi	Dried; ISO 527
Tensile Strength, Yield	45.0 MPa	6530 psi	Conditioned 50% RH; ISO 527
	90.0 MPa	13100 psi	Dried; ISO 527
Elongation at Break	5.0 %	5.0 %	Dried; ISO 527
	12 %	12 %	Conditioned 50% RH; ISO 527
Tensile Modulus	3.20 GPa	464 ksi	Conditioned 50% RH; ISO 527
	5.90 GPa	856 ksi	Dried; ISO 527
Compressive Yield Strength	28.0 MPa @Strain 1.00 %	4060 psi @Strain 1.00 %	ISO 604
Charpy Impact Unnotched	5.00 J/cm ²	23.8 ft-lb/in ²	ISO 179
Charpy Impact, Notched	0.600 J/cm ²	2.86 ft-lb/in ²	ISO 179
Coefficient of Friction, Dynamic	0.24	0.24	on polished steel; MPC Test
Coefficient of Friction, Static	0.23	0.23	on polished steel; MPC Test
	3.8	3.8	Âµm/s. PV = 0.1 MPa-m/s; max P =

K Factor (Wear Factor) Mechanical Properties	Metric	English	28 MPa: MPC Test Comments
Limiting Pressure Velocity	0.330 MPa-m/sec	9420 psi-ft/min	without lubrication; MPC Test

Thermal Properties	Metric	English	Comments
CTE, linear	60.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature 23.0 - 100 $\text{Å}^\circ\text{C}$	33.3 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature 73.4 - 212 $\text{Å}^\circ\text{F}$	ASTM D696
Thermal Conductivity	0.300 W/m-K	2.08 BTU-in/hr-ft $\text{Å}^2\cdot\text{Å}^\circ\text{F}$	DOM 52612
Maximum Service Temperature, Air	120 $\text{Å}^\circ\text{C}$	248 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 1.8 MPa (264 psi)	150 $\text{Å}^\circ\text{C}$	302 $\text{Å}^\circ\text{F}$	ISO 75
Minimum Service Temperature, Air	-20.0 $\text{Å}^\circ\text{C}$	-4.00 $\text{Å}^\circ\text{F}$	
Flammability, UL94	V-2	V-2	

Electrical Properties	Metric	English	Comments
Volume Resistivity	$\geq 1.00\text{e}+15$ ohm-cm	$\geq 1.00\text{e}+15$ ohm-cm	IEC 60093
Surface Resistance	$\geq 1.00\text{e}+12$ ohm	$\geq 1.00\text{e}+12$ ohm	IEC 60094
Dielectric Constant	3.9 @Frequency 1.00e+6 Hz	3.9 @Frequency 1.00e+6 Hz	IEC 60250
Dielectric Strength	28.0 kV/mm @Thickness 2.00 mm	711 kV/in @Thickness 0.0787 in	IEC 60243
Dielectric Loss Index	0.040 @Frequency 1.00e+6 Hz	0.040 @Frequency 1.00e+6 Hz	IEC 60250

Compliance Properties	Metric	English	Comments
FDA	No	No	

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

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