

Manifattura Cattaneo PET Polyethylene Terephthalate

Category : Polymer , Thermoplastic , Polyester, TP , Polyethylene Terephthalate (PET) , Polyethylene Terephthalate (PET), 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-PET-Polyethylene-Terephthalate.php

Physical Properties	Metric	English	Comments
Density	1.39 g/cc	0.0502 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.25 % @Temperature 23.0 °C	0.25 % @Temperature 73.4 °F	50% RH; ISO 62
Water Absorption at Saturation	0.50 %	0.50 %	ISO 62

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	96	96	ISO 2039-2
Tensile Strength, Yield	90.0 MPa	13100 psi	ISO 527
Elongation at Break	15 %	15 %	ISO 527
Tensile Modulus	3.70 GPa	537 ksi	ISO 527
Compressive Yield Strength	26.0 MPa @Strain 1.00 %	3770 psi @Strain 1.00 %	ISO 604
Poissons Ratio	0.44	0.44	
Charpy Impact Unnotched	>= 5.00 J/cm ²	>= 23.8 ft-lb/in ²	ISO 179
Charpy Impact, Notched	0.200 J/cm ²	0.952 ft-lb/in ²	ISO 179
Coefficient of Friction, Dynamic	0.25	0.25	on polished steel; MPC Test
Coefficient of Friction, Static	0.19	0.19	on polished steel; MPC Test
K Factor (Wear Factor)	0.60	0.60	Åµm/s. PV = 0.1 MPa-m/s; max P = 25 MPa; MPC Test
Limiting Pressure Velocity	0.0800 MPa-m/sec	2280 psi-ft/min	without lubrication; MPC Test

Thermal Properties	Metric	English	Comments
	80.0 Åµm/m-Å°C	44.4 Åµin/in-Å°F	

CTE linear Thermal Properties	Metric @ Temperature 23.0 - 100 Â°C	English @ Temperature 73.4 - 212 Â°F	ASTM D696 Comments
Thermal Conductivity	0.290 W/m-K	2.01 BTU-in/hr-ftÂ²- Â°F	DOM 52612
Maximum Service Temperature, Air	115 Â°C	239 Â°F	
Deflection Temperature at 1.8 MPa (264 psi)	75.0 Â°C	167 Â°F	ISO 75
Minimum Service Temperature, Air	-20.0 Â°C	-4.00 Â°F	
Flammability, UL94	HB	HB	
	V-2	V-2	
Oxygen Index	25 %	25 %	ISO 4589

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+17 ohm-cm	>= 1.00e+17 ohm-cm	IEC 60093
Surface Resistance	>= 1.00e+14 ohm	>= 1.00e+14 ohm	IEC 60094
Dielectric Constant	3.2 @Frequency 1.00e+6 Hz	3.2 @Frequency 1.00e+6 Hz	IEC 60250
Dielectric Strength	22.0 kV/mm @Thickness 2.00 mm	559 kV/in @Thickness 0.0787 in	IEC 60243
Dielectric Loss Index	0.014 @Frequency 1.00e+6 Hz	0.014 @Frequency 1.00e+6 Hz	IEC 60250

Compliance Properties	Metric	English	Comments
FDA	Yes	Yes	

Descriptive Properties	Value	Comments
Color	White	
UV Resistance	N	

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