

Manifattura Cattaneo PET+PTFE Polyethylene Terephthalate

Category : Polymer , Thermoplastic , Fluoropolymer , PTFE , Polyester, TP , Polyethylene Terephthalate (PET)

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-PETPTFE-Polyethylene-Terephthalate.php

Physical Properties	Metric	English	Comments
Density	1.46 g/cc	0.0527 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.23 % @Temperature 23.0 Â°C	0.23 % @Temperature 73.4 Â°F	50% RH; ISO 62
Water Absorption at Saturation	0.47 %	0.47 %	ISO 62

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	94	94	ISO 2039-2
Tensile Strength at Break	76.0 MPa	11000 psi	ISO 527
Elongation at Break	7.0 %	7.0 %	ISO 527
Tensile Modulus	3.45 GPa	500 ksi	ISO 527
Compressive Yield Strength	24.0 MPa @Strain 1.00 %	3480 psi @Strain 1.00 %	ISO 604
Poissons Ratio	0.44	0.44	
Charpy Impact Unnotched	>= 3.00 J/cm ²	>= 14.3 ft-lb/in ²	ISO 179
Charpy Impact, Notched	0.250 J/cm ²	1.19 ft-lb/in ²	ISO 179
Coefficient of Friction, Dynamic	0.17	0.17	on polished steel; MPC Test
Coefficient of Friction, Static	0.090	0.090	on polished steel; MPC Test
K Factor (Wear Factor)	4.9 - 8.0	4.9 - 8.0	Âµm/s. PV = 0.1 MPa-m/s; max P = 25 MPa; MPC Test
Limiting Pressure Velocity	0.540 MPa-m/sec	15400 psi-ft/min	without lubrication; MPC Test

Thermal Properties	Metric	English	Comments
	85.0 Âµm/m-Â°C	47.2 Âµin/in-Â°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	21.0 kV/mm @Thickness 2.00 mm	533 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	Gray Pearl	
UV Resistance	N	

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