

Manifattura Cattaneo PVDF

Category : Polymer , Thermoplastic , Fluoropolymer , PVDF , Polyvinylidene fluoride (PVDF), Molded/Extruded

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-PVDF.php

Physical Properties	Metric	English	Comments
Density	1.79 g/cc	0.0647 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.050 % @Temperature 23.0 °C	0.050 % @Temperature 73.4 °F	50% RH; ISO 62
Water Absorption at Saturation	0.050 %	0.050 %	ISO 62

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	75	75	ISO 2039-2
Tensile Strength at Break	30.0 - 50.0 MPa	4350 - 7250 psi	ISO 527
Tensile Strength, Yield	50.0 - 55.0 MPa	7250 - 7980 psi	ISO 527
Elongation at Break	20 - 60 %	20 - 60 %	ISO 527
Tensile Modulus	2.30 GPa	334 ksi	ISO 527
Flexural Strength	74.0 MPa	10700 psi	
Flexural Modulus	2.25 GPa	326 ksi	ISO 178
Compressive Yield Strength	17.0 MPa @Strain 1.00 %	2470 psi @Strain 1.00 %	ISO 604
Poissons Ratio	0.35	0.35	
Charpy Impact Unnotched	NB	NB	ISO 179
Charpy Impact, Notched	1.00 J/cm ²	4.76 ft-lb/in ²	ISO 179
Coefficient of Friction, Dynamic	0.20 - 0.35	0.20 - 0.35	on polished steel; MPC Test
Coefficient of Friction, Static	0.20 - 0.40	0.20 - 0.40	on polished steel; MPC Test
K Factor (Wear Factor)	0.60	0.60	μm/s. PV = 0.1 MPa-m/s; max P = 25 MPa; MPC Test

Thermal Properties	Metric	English	Comments
CTE, linear	125 - 140 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	69.4 - 77.8 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	ASTM D696
	@Temperature 23.0 - 100 $^\circ\text{C}$	@Temperature 73.4 - 212 $^\circ\text{F}$	
Thermal Conductivity	0.190 W/m-K	1.32 BTU-in/hr-ft $^2\cdot^\circ\text{F}$	DOM 52612
Maximum Service Temperature, Air	150 $^\circ\text{C}$	302 $^\circ\text{F}$	
Deflection Temperature at 1.8 MPa (264 psi)	105 $^\circ\text{C}$	221 $^\circ\text{F}$	ISO 75
Minimum Service Temperature, Air	-40.0 $^\circ\text{C}$	-40.0 $^\circ\text{F}$	
Flammability, UL94	V-0	V-0	
Oxygen Index	44 %	44 %	ISO 4589

Electrical Properties	Metric	English	Comments
Volume Resistivity	5.00e+16 ohm-cm	5.00e+16 ohm-cm	IEC 60093
Surface Resistance	$\geq 1.00\text{e}+13$ ohm	$\geq 1.00\text{e}+13$ ohm	IEC 60094
Dielectric Constant	7.5	7.5	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	20.0 - 30.0 kV/mm	508 - 762 kV/in	IEC 60243
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Dielectric Loss Index	0.15	0.15	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	

Compliance Properties	Metric	English	Comments
FDA	Yes	Yes	

Descriptive Properties	Value	Comments
Color	White	
UV Resistance	Y	

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