

Manifattura Cattaneo PVC HI Polyvinyl Chloride

Category : Polymer , Thermoplastic , Vinyl (PVC) , PVC, 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-PVC-HI-Polyvinyl-Chloride.php

Physical Properties	Metric	English	Comments
Density	1.40 g/cc	0.0506 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.20 % @Temperature 23.0 Â°C	0.20 % @Temperature 73.4 Â°F	50% RH; ISO 62
Water Absorption at Saturation	0.20 %	0.20 %	ISO 62

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	78 - 80	78 - 80	DIN 53505
Tensile Strength at Break	30.0 MPa	4350 psi	ISO 527
Tensile Strength, Yield	49.0 MPa	7110 psi	ISO 527
Elongation at Break	30 %	30 %	ISO 527
Elongation at Yield	10 %	10 %	ISO 527
Tensile Modulus	2.60 GPa	377 ksi	ISO 527
Flexural Strength	80.0 MPa	11600 psi	
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	0.60	0.60	on polished steel; MPC Test
Coefficient of Friction, Static	0.52	0.52	on polished steel; MPC Test

Thermal Properties	Metric	English	Comments
CTE, linear	80.0 Âµm/m-Â°C @Temperature 23.0 - 100 Â°C	44.4 Âµin/in-Â°F @Temperature 73.4 - 212 Â°F	ASTM D696
		1.32 BTU-in/hr-ft ² -	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	60.0 °C	140 °F	
Deflection Temperature at 0.46 MPa (66 psi)	69.0 °C	156 °F	ISO 75
Vicat Softening Point	73.0 °C	163 °F	ISO 306
Minimum Service Temperature, Air	-40.0 °C	-40.0 °F	
Flammability, UL94	V-1	V-1	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+17 ohm-cm	>= 1.00e+17 ohm-cm	IEC 60093
Surface Resistance	>= 1.00e+13 ohm	>= 1.00e+13 ohm	IEC 60094
Dielectric Constant	3.0 @Frequency 1.00e+6 Hz	3.0 @Frequency 1.00e+6 Hz	IEC 60250
Dielectric Strength	20.0 - 40.0 kV/mm @Thickness 2.00 mm	508 - 1020 kV/in @Thickness 0.0787 in	IEC 60243
Dielectric Loss Index	0.010 @Frequency 1.00e+6 Hz	0.010 @Frequency 1.00e+6 Hz	IEC 60250

Compliance Properties	Metric	English	Comments
FDA	No	No	

Descriptive Properties	Value	Comments
Color	Light Gray	
UV Resistance	N	

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