

## Manifattura Cattaneo PP H Polypropylene

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Extrusion Grade

### 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-PP-H-Polypropylene.php](http://www.lookpolymers.com/polymer_Manifattura-Cattaneo-PP-H-Polypropylene.php)

Physical Properties	Metric	English	Comments
Density	0.920 g/cc	0.0332 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption at Equilibrium	0.010 % @Temperature 23.0 Â°C	0.010 % @Temperature 73.4 Â°F	50% RH; ISO 62
Water Absorption at Saturation	0.10 %	0.10 %	ISO 62
Deformation	0.48 % @Time 86400 sec, Pressure 100 MPa	0.48 % @Time 24.0 hour, Pressure 14500 psi	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	70	70	DIN 53505
Tensile Strength at Break	38.5 MPa	5580 psi	ISO 527
Tensile Strength, Yield	32.0 MPa	4640 psi	ISO 527
Elongation at Break	80 %	80 %	ISO 527
Elongation at Yield	8.0 %	8.0 %	ISO 527
Tensile Modulus	1.60 GPa	232 ksi	ISO 527
Compressive Yield Strength	12.0 MPa @Strain 1.00 %	1740 psi @Strain 1.00 %	ISO 604
Charpy Impact Unnotched	NB	NB	ISO 179
Charpy Impact, Notched	5.00 J/cm <sup>2</sup>	23.8 ft-lb/in <sup>2</sup>	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear	105 Âµm/m-Â°C	58.3 Âµin/in-Â°F	ASTM D696
	140 Âµm/m-Â°C	77.8 Âµin/in-Â°F	

Thermal Properties	Metric @ Temperature 23.0 -	English @ Temperature 73.4 -	ASTM D696 Comments
	100 Â°C	212 Â°F	
Maximum Service Temperature, Air	100 Â°C	212 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	86.0 Â°C	187 Â°F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	64.0 Â°C	147 Â°F	ISO 75
Vicat Softening Point	94.0 Â°C	201 Â°F	ISO 306
Minimum Service Temperature, Air	0.000 Â°C	32.0 Â°F	
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+18 ohm-cm	>= 1.00e+18 ohm-cm	IEC 60093
Dielectric Constant	2.3	2.3	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Loss Index	0.00020	0.00020	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	Light Gray	
UV Resistance	N	

## Contact Songhan Plastic Technology Co.,Ltd.

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