

CP POM CP10G

General injection molding, Glass fiber 10%

Properties	Test Method	Unit	Value
Physical Properties			
Resin Identification	ISO 1043		POM-GF10
Density	ISO 1183	g/cm ³	1.48
Melt Flow Index (190 °C, 2.16 kg)	ISO 1133	g/10min	13
ASH	ISO 1172	%	10
Mold Shrinkage	ISO 294	%	0.8 - 1.2
Water Absorption (23 °C , 50 % RH)	ISO 62	%	0.2
Mechanical Properties			
Tensile Strength	ISO 527	Mpa	110
Elongation at Break	ISO 527	%	3.5
Tensile Strain at Yield	ISO 527	%	
Flexural Strength	ISO 178	MPa	150
Flexural Modulus	ISO 178	MPa	4750
Charpy Impact Strength (Un-Notched)	ISO 179	KJ/m ²	
Charpy Impact Strength (Notched)	ISO 179	KJ/m ²	6.5
Rockwell Hardness (M-scale)	ISO 2039		85
Thermal Properties			
Melting Point (20 °C/min)	ISO 11357	°C	165
Heat Deflection Temperature (1.8 MPa)	ISO 75	°C	155
Flammability (t = 0.8mm)	UL94	Class	HB
Electrical Properties			
Dielectric Constant	ISO 60250	kV/mm	
Dissipation Factor	ISO 60250	4.E+04	
Volume resistivity	IEC 60093	Ω · cm	1x10 ¹⁴
Surface Resistivity	IEC 60093	Ω	1x10 ¹⁶
Injection Molding Condition			
Mold Temperature		°C	60 - 120
Injection Molding Temperature		°C	180 - 210
Pre-drying Temperature		°C	80 - 100
Pre-drying Time			3 - 5

The above material properties are measured based on our knowledge and relevant test methods and conditions. The data provided should not be used to establish specification limits nor used along as the basis of design. We recommend that the customer must make their own determination as to its suitability to their purpose prior to use.