C&P Corporation

CP POLYMER® CN220G

Technical Data Sheet

CP PA66 CN220G

a 20% glass fiber reinforced polyamide 66 resin for injection molding

Properties	Test Method	Unit	Value
Physical Properties			
Resin Identification	ISO 1043		PA66-GF20
Density	ISO 1183	g/㎤	1.27
ASH	ISO 1172	%	20
Mold Shrinkage	ISO 294	%	0.4 - 1.0
Water Absorption (23 ℃ , 50 % RH)	ISO 62	%	0.8 - 1.2
Mechanical Properties			
Tensile Strength	ISO 527	Mpa	145
Elongation at Break	ISO 527	%	2.8
Flexural Strength	ISO 178	MPa	220
Flexural Modulus	ISO 178	MPa	6400
Charpy Impact Strength (Un-Notched)	ISO 179	KJ/㎡	
Charpy Impact Strength (Notched)	ISO 179	KJ/㎡	7.0
Rockwell Hardness (R-scale)	ISO 2039		121
Thermal Properties			
Melting Point (20 ℃/min)	ISO 11357	℃	260
Heat Deflection Temperature (1.8 MPa)	ISO 75	℃	250
Flammability (t = 0.8㎜)	UL94	Class	HB
Electrical Properties			
Dielectric Constant	ISO 60250	kV/mm	
Dissipation Factor	ISO 60250	4.E+04	
Volume resistivity	IEC 60093	Ω · ㎝	10^{15}
InjecInjection Molding Conditionstion			
Mold Temperature		℃	80 - 100
InjecInjection Molding Temperature		℃	280 - 310
Pre-drying Temperature		℃	80 - 100
Pre-drying Time			2 - 6