

**CP PA6 CN120G**

a 20% glass fiber reinforced polyamide 6 resin for injection molding

Properties	Test Method	Unit	Value
<b>Physical Properties</b>			
Resin Identification	ISO 1043		PA6-GF20
Density	ISO 1183	g/cm <sup>3</sup>	1.27
ASH	ISO 1172	%	20
Mold Shrinkage	ISO 294	%	0.3 - 0.9
Water Absorption (23 °C , 50 % RH)	ISO 62	%	0.4 - 0.6
<b>Mechanical Properties</b>			
Tensile Strength	ISO 527	Mpa	140
Elongation at Break	ISO 527	%	3.5
Flexural Strength	ISO 178	MPa	210
Flexural Modulus	ISO 178	MPa	6400
Charpy Impact Strength (Un-Notched)	ISO 179	KJ/m <sup>2</sup>	75
Charpy Impact Strength (Notched)	ISO 179	KJ/m <sup>2</sup>	7.5
Rockwell Hardness (R-scale)	ISO 2039		120
<b>Thermal Properties</b>			
Melting Point (20 °C/min)	ISO 11357	°C	220
Heat Deflection Temperature (1.8 MPa)	ISO 75	°C	205
Flammability (t = 0.8mm)	UL94	Class	HB
<b>Electrical Properties</b>			
Dielectric Constant	ISO 60250	kV/mm	
Dissipation Factor	ISO 60250	4.E+04	
Volume resistivity	IEC 60093	Ω · cm	10 <sup>15</sup>
<b>Injection Molding Conditions</b>			
Mold Temperature		°C	70 - 90
Injection Molding Temperature		°C	250 - 260
Pre-drying Temperature		°C	80 - 90
Pre-drying Time			2 - 6

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.

