

**LONGLITE® PA 20G7-104**

 Chang Chun Plastics Co., Ltd. (CCP Group) - *Polyamide 66*
**General Information**
**Product Description**

Polyamide 66, 33% glass-fiber reinforced for injection moulding.

**General**

Material Status	• Commercial: Active
Availability	• Asia Pacific • Europe • North America
Filler / Reinforcement	• Glass Fiber, 33% Filler by Weight
Features	• Chemical Resistant • Good Surface Finish • Wear Resistant • Excellent Weather Resistance • High Dimensional Stability • Good Electrical Properties • High Heat Resistance
Processing Method	• Injection Molding

**Properties <sup>1</sup>**

<b>Physical</b>	<b>Dry</b>	<b>Conditioned</b>	<b>Unit</b>	<b>Test Method</b>
Density	1.38	--	g/cm <sup>3</sup>	ISO 1183
Water Absorption (Equilibrium, 73°F, 50% RH)	1.7	--	%	ISO 62
<b>Mechanical</b>	<b>Dry</b>	<b>Conditioned</b>	<b>Unit</b>	<b>Test Method</b>
Tensile Modulus	1.45E+6	1.16E+6	psi	ISO 527-1
Tensile Stress	24700	21800	psi	ISO 527-2
Tensile Strain (Break)	3.0	--	%	ISO 527-2
Flexural Modulus	1.23E+6	1.02E+6	psi	ISO 178
Flexural Stress	36300	34800	psi	ISO 178
<b>Impact</b>	<b>Dry</b>	<b>Conditioned</b>	<b>Unit</b>	<b>Test Method</b>
Charpy Notched Impact Strength (73°F)	4.3	5.2	ft·lb/in <sup>2</sup>	ISO 179
<b>Thermal</b>	<b>Dry</b>	<b>Conditioned</b>	<b>Unit</b>	<b>Test Method</b>
Deflection Temperature Under Load (66 psi, Unannealed)	491	--	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	482	--	°F	ISO 75-2/A
Melting Temperature (DSC)	505	--	°F	ISO 3146
<b>Electrical</b>	<b>Dry</b>	<b>Conditioned</b>	<b>Unit</b>	<b>Test Method</b>
Surface Resistivity	1.0E+12	1.0E+12	ohms	IEC 60093
Volume Resistivity	1.0E+17	1.0E+17	ohms·cm	IEC 60093
Electric Strength (0.0787 in)	580	580	V/mil	IEC 60243-1
<b>Flammability</b>	<b>Dry</b>	<b>Conditioned</b>	<b>Unit</b>	<b>Test Method</b>
Flame Rating	HB	--		UL 94

**Processing Information**

<b>Injection</b>	<b>Dry Unit</b>
Drying Temperature	176 °F
Drying Time	4.0 hr
Suggested Max Moisture	0.20 %
Rear Temperature	518 to 527 °F
Middle Temperature	536 to 545 °F
Front Temperature	545 to 554 °F
Mold Temperature	140 to 194 °F
Injection Pressure	5080 to 18100 psi
Injection Rate	Moderate-Fast
Back Pressure	20.0 to 50.0 psi
Screw Speed	80 to 200 rpm

