

**LONGLITE® PA 10G9-201**

Chang Chun Plastics Co., Ltd. (CCP Group) - Polyamide 6

**General Information**
**Product Description**

Polyamide 6, 45% glass-fiber reinforced for injection moulding.

**General**

Material Status	• Commercial: Active
Availability	• Asia Pacific • Europe • North America
Filler / Reinforcement	• Glass Fiber, 45% Filler by Weight
Features	• Chemical Resistant • Good Surface Finish • Wear Resistant • Good Electrical Properties • High Heat Resistance
Processing Method	• Injection Molding

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

Physical	Nominal Value	Unit	Test Method
Density	1.50	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	0.40 to 0.60	%	
Flow	0.10 to 0.30	%	
Water Absorption (Equilibrium, 73°F, 50% RH)	1.9	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	26100	psi	ISO 527-2
Tensile Strain (Break)	2.5	%	ISO 527-2
Flexural Modulus	1.60E+6	psi	ISO 178
Flexural Stress	37700	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	8.1	ft·lb/in <sup>2</sup>	ISO 179
Charpy Unnotched Impact Strength (73°F)	48	ft·lb/in <sup>2</sup>	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	419	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	392	°F	ISO 75-2/A
Melting Temperature (DSC)	432	°F	ISO 3146
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms·cm	IEC 60093
Dielectric Constant (1 MHz)	3.80		IEC 60250
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94

**Processing Information**

Injection	Nominal Value	Unit
Drying Temperature	176	°F
Drying Time	4.0	hr
Suggested Max Moisture	0.20	%
Rear Temperature	464 to 500	°F
Middle Temperature	482 to 518	°F
Front Temperature	500 to 536	°F
Mold Temperature	176 to 203	°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

