

LONGLITE® PA 10G6-210

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

General Information

Product Description

Polyamide 6, 30% glass-fiber reinforced for injection moulding.

General

Material Status	• Commercial: Active
Availability	• Asia Pacific • Europe • North America
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Features	• Chemical Resistant • Good Surface Finish • Wear Resistant • Good Electrical Properties • High Heat Resistance
Processing Method	• Injection Molding

 Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.36	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	24700	psi	ISO 527-2
Tensile Strain (Break)	2.7	%	ISO 527-2
Flexural Modulus	1.16E+6	psi	ISO 178
Flexural Stress	35500	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	6.2	ft·lb/in ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	428	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	410	°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
Electric Strength (0.0787 in)	660	V/mil	IEC 60243-1
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

Notes

¹ Typical properties: these are not to be construed as specifications.
