

LONGLITE® PA 10G6-104

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

General Information

Product Description

PA 10G6-104 is a 30% glass fiber reinforced grade 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 • Fatigue Resistant • Good Compressive Strength • Good Electrical Properties • Good Moldability
Processing Method	• Injection Molding

 Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.37	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	23900	psi	ISO 527-2
Tensile Strain (Break)	3.0	%	ISO 527-2
Flexural Modulus	1.22E+6	psi	ISO 178
Flexural Stress	34800	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength	5.9	ft·lb/in ²	ISO 180
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)	401	°F	ISO 75-2/A
Melting Temperature	437	°F	ISO 11357-3
Electrical	Nominal Value	Unit	Test Method
Electric Strength (0.0787 in)	560	V/mil	IEC 60243-1
Comparative Tracking Index	550	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.031 in)	HB		UL 94

Processing Information

Injection	Nominal Value	Unit
Middle Temperature	464 to 500	°F
Nozzle Temperature	500 to 518	°F
Mold Temperature	104 to 248	°F
Injection Pressure	7250 to 17400	psi
Injection Rate	Moderate-Fast	
Holding Pressure	4350 to 11600	psi
Back Pressure	0.00 to 43.5	psi
Screw Speed	60 to 120	rpm

Notes

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