

LONGLITE® PA 21G3-105

Chang Chun Plastics Co., Ltd. (CCP Group) - Polyamide 66

General Information
Product Description

Polyamide 66, 15% glass-fiber reinforced injection molding grade with flame retardancy.

General

Material Status	• Commercial: Active
Availability	• Asia Pacific • Europe • North America
Filler / Reinforcement	• Glass Fiber, 15% Filler by Weight
Additive	• Flame Retardant • Mold Release
Features	• Flame Retardant
Forms	• Pellets
Processing Method	• Extrusion • Injection Molding • Profile Extrusion

Properties¹

Physical	Nominal Value	Unit	Test Method
Density	1.50	g/cm ³	ISO 1183
Molding Shrinkage - Across Flow	0.30 to 0.50	%	ISO 294-4
Water Absorption (Equilibrium, 73°F, 50% RH)	1.7	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	841000	psi	ISO 527-1
Tensile Stress (Break)	24700	psi	ISO 527-2
Tensile Strain (Break)	4.3	%	ISO 527-2
Flexural Modulus	1.16E+6	psi	ISO 178
Flexural Stress	34800	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	4.0	ft·lb/in ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
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 ²	505	°F	ISO 11357-3
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+12	ohms	IEC 60093
Volume Resistivity	1.0E+15	ohms·cm	IEC 60093
Electric Strength (0.0787 in)	610	V/mil	IEC 60243-1
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.13 in)	V-0		UL 94

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	176	°F
Drying Time	4.0	hr
Suggested Max Moisture	0.20	%
Processing (Melt) Temp	518 to 554	°F
Mold Temperature	194 to 230	°F

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

² 10°C/min
