

LONGLITE® PA 21G3-201

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

General Information
Product Description

Flame-retardant polyamide 66, 15% glass-fiber reinforced for injection moulding.

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Filler / Reinforcement	• Glass Fiber, 15% Filler by Weight		
Features	• Chemical Resistant	• Good Electrical Properties	• High Heat Resistance
	• Excellent Weather Resistance	• Good Surface Finish	• Wear Resistant
	• Flame Retardant	• High Dimensional Stability	
Processing Method	• Injection Molding		

Properties ¹

Physical	Dry	Conditioned	Unit	Test Method
Density	1.47	--	g/cm ³	ISO 1183
Water Absorption (Equilibrium, 73°F, 50% RH)	1.9	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	1.02E+6	827000	psi	ISO 527-1
Tensile Stress	16700	15200	psi	ISO 527-2
Tensile Strain (Break)	2.5	--	%	ISO 527-2
Flexural Modulus	798000	580000	psi	ISO 178
Flexural Stress	23200	21800	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (73°F)	2.6	3.1	ft·lb/in ²	ISO 179
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	482	--	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	464	--	°F	ISO 75-2/A
Melting Temperature (DSC)	505	--	°F	ISO 3146
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	1.0E+15	1.0E+13	ohms·cm	IEC 60093
Electric Strength (0.0787 in)	560	560	V/mil	IEC 60243-1
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (0.031 in)	V-0	--		UL 94

Processing Information

Injection	Dry Unit
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	158 to 212 °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

