

LONGLITE® PA 20G0-200S

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

General Information

Product Description

PA66 20G0-200S is an unreinforced, high tough polyamide 66 for injection molding.

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Features	• Chemical Resistant	• Good Surface Finish	• High Toughness
	• Excellent Weather Resistance	• High Dimensional Stability	• Wear Resistant
	• Good Electrical Properties	• High Heat Resistance	
Processing Method	• Injection Molding		

Properties ¹

Physical	Dry	Conditioned	Unit	Test Method
Density	1.07	--	g/cm ³	ISO 1183
Molding Shrinkage (0.157 in)	1.9	--	%	Internal Method
Water Absorption (Equilibrium, 73°F, 50% RH)	1.7	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	232000	131000	psi	ISO 527-1
Tensile Stress	6530	5510	psi	ISO 527-2
Tensile Strain (Break)	40	> 50	%	ISO 527-2
Flexural Modulus	232000	152000	psi	ISO 178
Flexural Stress	8700	7250	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179
-40°F	10	9.5	ft·lb/in ²	
73°F	43	57	ft·lb/in ²	
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	275	--	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	149	--	°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)	760	910	V/mil	IEC 60243-1
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating	HB	--		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	140 to 194 °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

