LONGLITE® PA 21G7-201

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

General Information

Product Description			
Flame-retardant polyamide 66, 33% glass-fiber reinforced for injection moulding.			
General			
Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Filler / Reinforcement	• Glass Fiber, 33% Filler by Weight		
Features	• Chemical Resistant • Excellent Weather Resistance • Flame Retardant	• Good Electrical Properties • Good Surface Finish • High Dimensional Stability	• High Heat Resistance • Wear Resistant
Processing Method	• Injection Molding		

Properties [1]

Physical	Dry	Conditioned	Unit	Test Method
Density	1.58	--	g/cm³	ISO 1183
Water Absorption (Equilibrium, 73°F, 50% RH)	1.3	--	%	ISO 62
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	1.74E+6	1.45E+6	psi	ISO 527-1
Tensile Stress	24700	21800	psi	ISO 527-2
Tensile Strain (Break)	2.6	--	%	ISO 527-2
Flexural Modulus	1.29E+6	1.09E+6	psi	ISO 178
Flexural Stress	33400	29000	psi	ISO 178
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength (73°F)	5.2	6.2	ft·lb/in²	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**
Surface Resistivity	1.0E+11	1.0E+11	ohms	IEC 60093
Volume Resistivity	1.0E+15	1.0E+13	ohms·cm	IEC 60093
Electric Strength (0.0787 in)	530	530	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