LONGLITE® PA 20G0-210S

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

General Information

Product Description

PA66 20G0-210S is an unreinforced, toughness modified polyamide 66 for injection molding.

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

Properties [1]

Physical	Dry	Conditioned	Unit	Test Method
Density	1.11	--	g/cm³	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	399000	225000	psi	ISO 527-1
Tensile Stress	10200	7250	psi	ISO 527-2
Tensile Strain (Break)	20	40	%	ISO 527-2
Flexural Modulus	363000	326000	psi	ISO 178
Flexural Stress	13800	9430	psi	ISO 178
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength (73°F)	6.7	12	ft·lb/in²	ISO 179
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)	530	660	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