LONGLITE® PA 10G6-202

Chang Chun Plastics Co., Ltd. (CCP Group) - *Polyamide 6*

General Information

Product Description			
Polyamide 6, 30% glass-fiber reinforced for injection moulding.			
General			
Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight		
Features	• Chemical Resistant • Good Electrical Properties	• Good Surface Finish • High Heat Resistance	• Wear Resistant
Processing Method	• Injection Molding		

Properties [1]

Physical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Density	1.35	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.80 to 1.2	--	%	
Flow	0.20 to 0.50	--	%	
Water Absorption (Equilibrium, 73°F, 50% RH)	1.9	--	%	ISO 62
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	870000	798000	psi	ISO 527-1
Tensile Stress	19600	16700	psi	ISO 527-2
Tensile Strain (Break)	2.0	3.0	%	ISO 527-2
Flexural Modulus	1.09E+6	870000	psi	ISO 178
Flexural Stress	26100	21800	psi	ISO 178
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength				ISO 179
-49°F	4.3	5.2	ft·lb/in²	
73°F	4.8	7.1	ft·lb/in²	
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed)	419	--	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	392	--	°F	ISO 75-2/A
Melting Temperature (DSC)	432	--	°F	ISO 3146
Electrical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Volume Resistivity	1.0E+15	1.0E+12	ohms·cm	IEC 60093
Electric Strength (0.0787 in)	660	560	V/mil	IEC 60243-1
Dielectric Constant (1 MHz)	3.80	6.80		IEC 60250
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	464 to 500	°F
Middle Temperature	482 to 518	°F
Front Temperature	500 to 536	°F
Mold Temperature	176 to 203	°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

Notes

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