

Zhongfa PC G2810

Polycarbonate

Yuyao Zhongfa Engineering Plastics Co. Ltd.

Message:

Zhongfa PC G2810 is a polycarbonate (PC) material, which contains a 10% glass fiber reinforced material. This product is available in the Asia-Pacific region and is processed by injection molding.

The main features of Zhongfa PC G2810 are:

flame retardant/rated flame

Good dimensional stability

Heat resistance

Typical application areas include:

Electrical/electronic applications

electrical appliances

Automotive Industry

Sporting goods

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 10% filler by weight		
Features	Good dimensional stability Heat resistance, high		
Uses	Electrical/Electronic Applications Electrical appliances Application in Automobile Field Sporting goods		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.25	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.20	%	ASTM D955
Water Absorption (Equilibrium)	0.13	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	75.0	MPa	ASTM D638
Tensile Elongation (Break)	6.5	%	ASTM D638
Flexural Modulus	3350	MPa	ASTM D790
Flexural Strength	115	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	149	°C	ASTM D648
1.8 MPa, not annealed	143	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	4.0E+16	ohms · cm	ASTM D257

Dielectric Strength	19	kV/mm	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.60 mm	V-1		UL 94
3.20 mm	V-1		UL 94

Additional Information

Flexural Modulus, ASTM D790: 3300 to 3400 MPa Flexural Strength, ASTM D790: 110 to 120 MPa HDT at 264 psi, ASTM D648: 142 to 144°C HDT at 66 psi, ASTM D648: 148 to 150°C Notched Izod Impact, ASTM D256: 12 to 17 kJ/m² Tensile Elongation, ASTM D638: 6 to 7% Tensile Strength, ASTM D638: 70 to 80 MPa

Injection	Nominal Value	Unit
Drying Temperature	105 - 110	°C
Drying Time	4.0 - 5.0	hr
Processing (Melt) Temp	210 - 255	°C
Mold Temperature	60.0 - 80.0	°C
Injection Pressure	70.0 - 100	MPa

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