

Zhongfa PC G2820

Polycarbonate

Yuyao Zhongfa Engineering Plastics Co. Ltd.

Message:

Zhongfa PC G2820 is a polycarbonate (PC) material, and its filler is 20% 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 G2820 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, 20% 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	1.32	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.30 - 0.40	%	ASTM D955
Water Absorption (Equilibrium)	0.12	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	100	MPa	ASTM D638
Tensile Elongation (Break)	5.5	%	ASTM D638
Flexural Modulus	5500	MPa	ASTM D790
Flexural Strength	155	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	150	°C	ASTM D648
1.8 MPa, not annealed	146	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	4.0E+16	ohms · cm	ASTM D257

Dielectric Strength	23	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: 5000 to 6000 MPa Flexural Strength, ASTM D790: 140 to 170 MPa HDT at 264 psi, ASTM D648: 145 to 147°C HDT at 66 psi, ASTM D648: 149 to 151°C Notched Izod Impact, ASTM D256: 12 to 17 kJ/m² Tensile Elongation, ASTM D638: 5 to 6% Tensile Strength, ASTM D638: 95 to 110 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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