

Zhongfa PC FR2840G

Polycarbonate

Yuyao Zhongfa Engineering Plastics Co. Ltd.

Message:

Zhongfa PC FR2840G is a polycarbonate (PC) material, which contains a 40% 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 FR2840G are:

flame retardant/rated flame

Flame Retardant

Good dimensional stability

Heat resistance

Halogen-free

Typical application areas include:

Electrical/electronic applications

electrical appliances

Automotive Industry

Sporting goods

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 40% filler by weight		
Additive	Flame retardancy		
Features	Good dimensional stability		
	Heat resistance, high		
	Halogen-free		
	Flame retardancy		
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	1.52	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.10 - 0.20	%	ASTM D955
Water Absorption (Equilibrium)	0.90	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	158	MPa	ASTM D638
Tensile Elongation (Break)	3.0	%	ASTM D638
Flexural Modulus	9600	MPa	ASTM D790
Flexural Strength	186	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648

0.45 MPa, not annealed	154	°C	ASTM D648
1.8 MPa, not annealed	150	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	4.0E+16	ohms·cm	ASTM D257
Dielectric Strength	25	kV/mm	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.60 mm	V-0		UL 94
3.20 mm	V-0		UL 94

Additional Information

Notched Izod Impact, ASTM D256: 13 kJ/m²

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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