

AIE PC 10G4F

Polycarbonate

Asia International Enterprise (Hong Kong) Limited

Message:

AIE PC 10G4F is a Polycarbonate (PC) material filled with 20% glass fiber. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for injection molding.

Important attributes of AIE PC 10G4F are:

- Flame Rated
- Flame Retardant
- Good Dimensional Stability
- Rigid

General Information			
UL YellowCard	E252275-476084		
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Features	Flame Retardant		
	Good Dimensional Stability		
	High Rigidity		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.35	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	2.5	g/10 min	ISO 1133
Molding Shrinkage	0.20 to 0.40	%	Internal Method
Water Absorption (23°C, 24 hr)	0.40	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	105	MPa	ISO 527-2
Tensile Strain (Break)	4.0	%	ISO 527-2
Flexural Modulus	6300	MPa	ISO 178
Flexural Stress	130	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C)	17	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	148	°C	ISO 75-2/B
1.8 MPa, Unannealed	143	°C	ISO 75-2/A
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.50 mm	V-2		
3.00 mm	V-0		
Injection	Nominal Value	Unit	

Drying Temperature	110 to 120	°C
Drying Time	3.0 to 4.0	hr
Processing (Melt) Temp	265 to 300	°C
Mold Temperature	110 to 130	°C
Injection Pressure	40.0 to 100	MPa

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Recommended distributors for this material

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