

AIE PBT 30G3

Polybutylene Terephthalate
Asia International Enterprise (Hong Kong) Limited

Message:

AIE PBT 30G3 is a polybutene terephthalate (PBT) material, which contains a filler of 15% glass fabric reinforcement. This product is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. The processing method is injection molding.

The main features of AIE PBT 30G3 are:

- flame retardant/rated flame
- Hard
- Good dimensional stability
- Heat resistance

General Information			
Filler / Reinforcement	Glass fabric reinforcement, 15% filler by weight		
Features	Good dimensional stability		
	Rigidity, high		
	Heat resistance, high		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.41	g/cm ³	ISO 1183
Molding Shrinkage	0.40 - 0.90	%	Internal method
Water Absorption (23°C, 24 hr)	0.30	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	100	MPa	ISO 527-2
Tensile Strain (Break)	4.0	%	ISO 527-2
Flexural Modulus	4660	MPa	ISO 178
Flexural Stress	130	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	16	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	220	°C	ISO 75-2/B
1.8 MPa, not annealed	207	°C	ISO 75-2/A
Flammability	Nominal Value	Test Method	
Flame Rating	HB	UL 94	
Injection	Nominal Value	Unit	
Drying Temperature	100 - 140	°C	
Drying Time	4.0 - 6.0	hr	
Rear Temperature	235 - 250	°C	
Middle Temperature	240 - 260	°C	

Front Temperature	240 - 260	°C
Nozzle Temperature	230 - 245	°C
Mold Temperature	50.0 - 160	°C
Injection Pressure	40.0 - 120	MPa
Holding Pressure	40.0 - 50.0	MPa
Back Pressure	5.00 - 10.0	MPa
Screw Speed	40 - 75	rpm

Injection instructions

Cylinder Temperature 4: 190 to 220°C

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