

AIE PA6 50G6

Polyamide 6

Asia International Enterprise (Hong Kong) Limited

Message:

AIE PA6 50G6 is a Polyamide 6 (Nylon 6) material filled with 30% glass fabric. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for injection molding.

Important attributes of AIE PA6 50G6 are:

Flame Rated

High Flow

General Information			
Filler / Reinforcement	Glass Fabric,30% Filler by Weight		
Features	High Flow		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.39	g/cm³	ISO 1183
Molding Shrinkage	0.30 to 0.60	%	Internal Method
Water Absorption (23°C, 24 hr)	1.7	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	180	MPa	ISO 527-2
Tensile Strain (Break)	3.0	%	ISO 527-2
Flexural Modulus	8600	MPa	ISO 178
Flexural Stress	280	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C)	20	kJ/m²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	220	°C	ISO 75-2/B
1.8 MPa, Unannealed	210	°C	ISO 75-2/A
Melting Temperature (DSC)	225	°C	ISO 3146
Flammability	Nominal Value	Test Method	
Flame Rating	HB	UL 94	
Injection	Nominal Value	Unit	
Drying Temperature	90.0 to 100	°C	
Drying Time	2.0 to 4.0	hr	
Processing (Melt) Temp	220 to 260	°C	
Mold Temperature	50.0 to 100	°C	
Injection Pressure	30.0 to 80.0	MPa	

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