

AIE PA6 50G5F

Polyamide 6

Asia International Enterprise (Hong Kong) Limited

Message:

AIE PA6 50G5F is a polyamide 6 (nylon 6) material, which contains a filler of 25% 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 PA6 50G5F are:

flame retardant/rated flame

Flame Retardant

Good dimensional stability

General Information			
Filler / Reinforcement	Glass fabric reinforced material, 25% filler by weight		
Features	Good dimensional stability		
	Flame retardancy		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.60	g/cm ³	ISO 1183
Molding Shrinkage	0.30 - 0.60	%	Internal method
Water Absorption (23°C, 24 hr)	1.6	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	145	MPa	ISO 527-2
Tensile Strain (Break)	2.6	%	ISO 527-2
Flexural Modulus	8000	MPa	ISO 178
Flexural Stress	240	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	18	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	206	°C	ISO 75-2/A
Melting Temperature (DSC)	225	°C	ISO 3146
Flammability	Nominal Value	Test Method	
Flame Rating (1.50 mm)	V-0	UL 94	
Injection	Nominal Value	Unit	
Drying Temperature	80.0 - 100	°C	
Drying Time	4.0 - 6.0	hr	
Rear Temperature	245 - 260	°C	
Middle Temperature	240 - 250	°C	
Front Temperature	230 - 250	°C	

Nozzle Temperature	250 - 260	°C
Mold Temperature	50.0 - 110	°C
Injection Pressure	30.0 - 80.0	MPa
Holding Pressure	40.0 - 50.0	MPa
Back Pressure	5.00 - 10.0	MPa
Screw Speed	40 - 70	rpm

Injection instructions

Cylinder Temperature 4: 230 to 245°C

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

