

AIE PA6 5010ST

Polyamide 6

Asia International Enterprise (Hong Kong) Limited

Message:

AIE PA6 5010ST is a polyamide 6 (nylon 6) material. 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 5010ST are:

- flame retardant/rated flame
- Good toughness

General Information			
Features	Good toughness		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.00	g/cm ³	ISO 1183
Molding Shrinkage	1.0 - 2.0	%	Internal method
Water Absorption (23°C, 24 hr)	0.80	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	60.0	MPa	ISO 527-2
Tensile Strain (Break)	200	%	ISO 527-2
Flexural Modulus	1950	MPa	ISO 178
Flexural Stress	65.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	110	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	178	°C	ISO 75-2/B
1.8 MPa, not annealed	54.0	°C	ISO 75-2/A
Flammability	Nominal Value	Test Method	
Flame Rating	HB	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

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