

Staramide PB00A

Polyamide 6

Eurostar Engineering Plastics

Message:

Staramide PB00A is a 50 % Glass Bead Reinforced Polyamide 6 Injection Molding Resin

General Information			
Filler / Reinforcement	Glass Bead,50% Filler by Weight		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.55	g/cm ³	ISO 1183
Molding Shrinkage - Flow (4.00 mm)	1.1	%	Internal Method
Water Absorption (23°C, 24 hr)	1.6	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	5000	MPa	ISO 527-2/1
Tensile Stress (Break)	64.0	MPa	ISO 527-2/5
Tensile Strain (Break)	2.3	%	ISO 527-2/5
Flexural Modulus ¹	4500	MPa	ISO 178
Flexural Stress	93.0	MPa	ISO 178
Flexural Strain at Break ²	3.4	%	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength ³ (23°C)	3.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ⁴ (23°C)	15	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁵			
0.45 MPa, Unannealed, 64.0 mm Span	180	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 64.0 mm Span	64.0	°C	ISO 75-2/Af
CLTE			ISO 11359-2
Flow : 23 to 60°C	7.4E-5	cm/cm/°C	
Transverse : 23 to 60°C	7.2E-5	cm/cm/°C	
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.20	%	
Rear Temperature	250 to 260	°C	
Middle Temperature	265 to 275	°C	
Front Temperature	275 to 290	°C	
Processing (Melt) Temp	265 to 275	°C	
Mold Temperature	80.0 to 95.0	°C	

NOTE	
1.	2.0 mm/min
2.	2.0 mm/min
3.	80*10*4
4.	80*10*4
5.	80*10*4

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