

Staramide PF00AE

Polyamide 6
Eurostar Engineering Plastics

Message:
Staramide PF00AE is a 50 % Glass Fiber Reinforced Polyamide 6 Injection Molding Resin

General Information			
Filler / Reinforcement	Glass Fiber,50% Filler by Weight		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.55	g/cm ³	ASTM D792
Molding Shrinkage - Flow ¹	0.10 to 0.20	%	Internal Method
Water Absorption			ISO 62
Saturation, 23°C	4.5	%	
Equilibrium, 23°C, 50% RH	0.60	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	14000	MPa	ISO 527-2/1
Tensile Stress (Break)	224	MPa	ISO 527-2/5
Tensile Strain (Break)	3.2	%	ISO 527-2/5
Flexural Modulus ²	13300	MPa	ISO 178
Flexural Stress	320	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength ³			ISO 180/1A
-30°C	15	kJ/m ²	
23°C	18	kJ/m ²	
Unnotched Izod Impact Strength ⁴ (23°C)	90	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁵ (1.8 MPa, Unannealed, 100 mm Span)	212	°C	ISO 75-2/Ae
Ball Pressure Test ⁶ (125°C)	Pass		IEC 60695-10-2
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	260 to 280	°C	
Front Temperature	260 to 280	°C	
Processing (Melt) Temp	260 to 280	°C	
Mold Temperature	50.0 to 90.0	°C	

NOTE	
1.	Tensile Bar
2.	2.0 mm/min
3.	80*10*4
4.	80*10*4
5.	120*10*4
6.	125°C ±2°C

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