

Staramide BG6ST43

Polyamide 6

Eurostar Engineering Plastics

Message:

Staramide BG6ST43 is an Impact Modified and Glass Fiber Reinforced Polyamide 6 Injection Molding Resin

General Information			
Filler / Reinforcement	Glass Fiber		
Additive	Impact Modifier		
Features	Impact Modified		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.30	g/cm ³	ISO 1183
Molding Shrinkage - Flow ¹	0.30 to 0.40	%	Internal Method
Water Absorption (Saturation, 23°C)	4.5	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	6200	MPa	ISO 527-2/1
Tensile Stress (Break)	95.0	MPa	ISO 527-2/5
Tensile Strain (Break)	6.0	%	ISO 527-2/5
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength ²			ISO 179/1eU
-30°C	> 100	kJ/m ²	
23°C	> 100	kJ/m ²	
Notched Izod Impact Strength ³			ISO 180/1A
-40°C	19	kJ/m ²	
-20°C	21	kJ/m ²	
23°C	24	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁴			
0.45 MPa, Unannealed, 100 mm Span	200	°C	ISO 75-2/Be
1.8 MPa, Unannealed, 100 mm Span	175	°C	ISO 75-2/Ae
Vicat Softening Temperature	210	°C	ISO 306/B120
CLTE			ISO 11359-2
Flow : 23 to 60°C	2.9E-5	cm/cm/°C	
Transverse : 23 to 60°C	8.9E-5	cm/cm/°C	
Flammability	Nominal Value	Test Method	
Flame Rating (1.60 mm, Tested by E2P)	HB	UL 94	
Injection	Nominal Value	Unit	
Drying Temperature	75.0 to 85.0	°C	

Drying Time	4.0 to 6.0	hr
Suggested Max Moisture	0.20	%
Rear Temperature	230 to 240	°C
Middle Temperature	240 to 250	°C
Front Temperature	240 to 260	°C
Processing (Melt) Temp	240 to 260	°C
Mold Temperature	60.0 to 80.0	°C

NOTE		
1.	Tensile Bar	
2.	80*10*4 sp=62mm	
3.	80*10*4	
4.	120*10*4	

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