

Staramide BGT7H1

Polyamide 6

Eurostar Engineering Plastics

Message:

Staramide BGT7H1 is Heat Stabilized, Glass Fiber Reinforced Mineral Filled Polyamide 6 Injection Molding Resin

General Information			
Filler / Reinforcement	Glass\Mineral		
Additive	Heat Stabilizer		
Features	Heat Stabilized		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.42	g/cm ³	ISO 1183
Molding Shrinkage - Flow ¹	0.20 to 0.30	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	7400	MPa	ISO 527-2/1
Tensile Stress (Break)	120	MPa	ISO 527-2/5
Tensile Strain (Break)	3.0	%	ISO 527-2/5
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength ²			ISO 180/1A
-40°C	4.0	kJ/m ²	
-20°C	5.0	kJ/m ²	
23°C	6.0	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ³			
0.45 MPa, Unannealed, 100 mm Span	220	°C	ISO 75-2/Be
1.8 MPa, Unannealed, 100 mm Span	210	°C	ISO 75-2/Ae
Vicat Softening Temperature	220	°C	ISO 306/B120
CLTE			ISO 11359-2
Flow : 23 to 60°C	3.7E-5	cm/cm/°C	
Transverse : 23 to 60°C	6.0E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index			IEC 60112
--	550	V	
Solution B	450	V	
Flammability	Nominal Value	Unit	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 270	°C
Processing (Melt) Temp	240 to 270	°C
Mold Temperature	60.0 to 80.0	°C

NOTE

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|----|-------------|
| 1. | Tensile Bar |
| 2. | 80*10*4 |
| 3. | 120*10*4 |

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