

Staramide BG7HU

Polyamide 6
Eurostar Engineering Plastics

Message:
Staramide BG7HU is a Heat and UV Stabilized, 35 % Glass Fiber Reinforced Polyamide 6 Injection Molding Resin

General Information			
Filler / Reinforcement	Glass Fiber,35% Filler by Weight		
Additive	Heat Stabilizer		
	UV Stabilizer		
Features	Good UV Resistance		
	Heat Stabilized		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.42	g/cm ³	ASTM D792
Molding Shrinkage - Flow ¹	0.15 to 0.35	%	Internal Method
Water Absorption			ISO 62
Saturation, 23°C	6.2	%	
Equilibrium, 23°C, 50% RH	1.6	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (L-Scale)	112		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	10000	MPa	ISO 527-2/1
Tensile Stress (Break)	180	MPa	ISO 527-2/5
Tensile Strain (Break)	3.2	%	ISO 527-2/5
Flexural Modulus ²	9750	MPa	ISO 178
Flexural Stress	280	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ³			ISO 179/1eA
-30°C	12	kJ/m ²	
23°C	15	kJ/m ²	
Charpy Unnotched Impact Strength ⁴			ISO 179/1eU
-30°C	85	kJ/m ²	
23°C	90	kJ/m ²	
Notched Izod Impact Strength ⁵			ISO 180/1A
-40°C	10	kJ/m ²	
-30°C	11	kJ/m ²	

-20°C	12	kJ/m ²	
23°C	16	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁶			
0.45 MPa, Unannealed, 100 mm Span	220	°C	ISO 75-2/Be
1.8 MPa, Unannealed, 100 mm Span	215	°C	ISO 75-2/Ae
Vicat Softening Temperature			
--	217	°C	ISO 306/B50
--	216	°C	ISO 306/B120
Ball Pressure Test ⁷ (125°C)	Pass		IEC 60695-10-2
CLTE			ISO 11359-2
Flow : 23 to 60°C	2.1E-5	cm/cm/°C	
Transverse : 23 to 60°C	8.1E-5	cm/cm/°C	
Thermal Conductivity	0.33	W/m/K	ASTM E1530
RTI Elec	65.0	°C	UL 746
RTI Imp	65.0	°C	UL 746
RTI Str	65.0	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity ⁸	> 1.0E+16	ohms	IEC 60093
Volume Resistivity	> 1.0E+16	ohms·cm	ASTM D257
Electric Strength (3.20 mm, in Oil)	20	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
50 Hz	3.60		
60 Hz	3.60		
1 MHz	3.30		
Dissipation Factor			IEC 60250
50 Hz	6.5E-3		
60 Hz	6.5E-3		
1 MHz	0.016		
Comparative Tracking Index			IEC 60112
--	500	V	
Solution B	400	V	
Flammability	Nominal Value	Unit	Test Method
Burning Rate			FMVSS 302
2.00 mm	10	mm/min	
3.00 mm	5.0	mm/min	
Flame Rating			UL 94
0.750 mm	HB		
3.00 mm	HB		
Glow Wire Ignition Temperature (2.00 mm)	650	°C	IEC 60695-2-13
Oxygen Index	27	%	ISO 4589-2
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. | 2.0 mm/min |
| 3. | 80*10*4 sp=62mm |
| 4. | 80*10*4 sp=62mm |
| 5. | 80*10*4 |
| 6. | 120*10*4 |
| 7. | 125°C ±2°C |
| 8. | ROA |

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