

Staramide BG3

Polyamide 6

Eurostar Engineering Plastics

Message:

Staramide BG3 is a 15 % Glass Fiber Reinforced Polyamide 6 Injection Molding Resin

General Information			
Filler / Reinforcement	Glass Fiber,15% Filler by Weight		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.23	g/cm ³	ISO 1183
Molding Shrinkage - Flow ¹	0.45 to 0.85	%	Internal Method
Water Absorption (Saturation, 23°C)	8.0	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (L-Scale)	110		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	5800	MPa	ISO 527-2/1
Tensile Stress (Break)	125	MPa	ISO 527-2/5
Tensile Strain (Break)	3.5	%	ISO 527-2/5
Flexural Modulus ²	4750	MPa	ISO 178
Flexural Stress	180	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength ³ (23°C)	45	kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength ⁴ (23°C)	6.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ⁵			ISO 180/1U
-30°C	35	kJ/m ²	
23°C	40	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁶			
0.45 MPa, Unannealed, 100 mm Span	212	°C	ISO 75-2/Be
1.8 MPa, Unannealed, 100 mm Span	190	°C	ISO 75-2/Ae
Vicat Softening Temperature	206	°C	ISO 306/B120
CLTE			ISO 11359-2
Flow : 23 to 60°C	5.0E-5	cm/cm/°C	
Transverse : 23 to 60°C	1.0E-4	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity ⁷	> 1.0E+16	ohms	IEC 60093
Volume Resistivity	> 1.0E+16	ohms · cm	IEC 60093

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	3.40		
Dissipation Factor			IEC 60250
50 Hz	6.1E-3		
60 Hz	6.1E-3		
1 MHz	0.016		
Comparative Tracking Index			IEC 60112
--	550	V	
Solution B	450	V	
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.750 mm, Tested by E2P)	HB		UL 94
Oxygen Index	24	%	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			
1.	Tensile Bar		
2.	2.0 mm/min		
3.	80*10*4 sp=62mm		
4.	80*10*4		
5.	80*10*4		
6.	120*10*4		
7.	ROA		

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