

Staramide BG5

Polyamide 6

Eurostar Engineering Plastics

Message:

Staramide BG5 is a 25 % Glass Fiber Reinforced Polyamide 6 Injection Molding Resin

General Information			
Filler / Reinforcement	Glass Fiber,25% Filler by Weight		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.31	g/cm ³	ISO 1183
Molding Shrinkage - Flow ¹	0.20 to 0.30	%	Internal Method
Water Absorption (Saturation, 23°C)	6.5	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	7900	MPa	ISO 527-2/1
Tensile Stress (Break)	150	MPa	ISO 527-2/5
Tensile Strain (Break)	3.5	%	ISO 527-2/5
Flexural Modulus ²	7800	MPa	ISO 178
Flexural Stress	190	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength ³ (23°C)	50	kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength ⁴			ISO 180/1A
-40°C	7.0	kJ/m ²	
-20°C	9.0	kJ/m ²	
23°C	10	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁵			
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	222	°C	ISO 306/B120
Ball Pressure Test ⁶ (125°C)	Pass		IEC 60695-10-2
CLTE			ISO 11359-2
Flow : 23 to 60°C	3.1E-5	cm/cm/°C	
Transverse : 23 to 60°C	9.1E-5	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	
--	500	V	
Solution B	375	V	
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.750 mm, Tested by E2P)	HB		UL 94
Glow Wire Flammability Index (2.00 mm)	650	°C	IEC 60695-2-12
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.	120*10*4		
6.	125°C ±2°C		
7.	ROA		

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