Staramide BG3ST42

Polyamide 6

Eurostar Engineering Plastics

Message:

Staramide BG3ST42 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	1.20	g/cm³	ISO 1183
Molding Shrinkage - Flow [1]	0.80 to 1.2	%	Internal Method
Water Absorption (Saturation, 23°C)	5.0	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	5200	MPa	ISO 527-2/1
Tensile Stress (Yield)	94.0	MPa	ISO 527-2/5
Tensile Strain (Break)	8.0	%	ISO 527-2/5
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact Strength [2]			ISO 180/1A
-40°C	7.0	kJ/m²	
-20°C	11	kJ/m²	
23°C	14	kJ/m²	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature [3]			
0.45 MPa, Unannealed, 100 mm Span	200	°C	ISO 75-2/Be
1.8 MPa, Unannealed, 100 mm Span	165	°C	ISO 75-2/Ae
CLTE			ISO 11359-2
Flow : 23 to 60°C	5.2E-5	cm/cm/°C	
Transverse : 23 to 60°C	1.0E-4	cm/cm/°C	
Electrical	**Nominal Value**	**Unit**	**Test Method**
Comparative Tracking Index			IEC 60112
--	550	V	
Solution B	500	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 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
3.	120*10*4

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