

Staramide BG4ST43

Polyamide 6
Eurostar Engineering Plastics

Message:
Staramide BG4ST43 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/cm ³	ISO 1183
Molding Shrinkage - Flow ¹	0.70 to 0.90	%	Internal Method
Water Absorption			ISO 62
Saturation, 23°C	6.0	%	
Equilibrium, 23°C, 50% RH	1.4	%	
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	101	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	5000	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/5
Yield	85.0	MPa	
Break	83.0	MPa	
Tensile Strain			ISO 527-2/5
Yield	3.2	%	
Break	4.0	%	
Flexural Modulus ²	4000	MPa	ISO 178
Flexural Stress	115	MPa	ISO 178
Taber Abrasion Resistance (1000 Cycles, 1000 g, CS-17 Wheel)	31.0	mg	Internal Method
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ³			ISO 179/1eA
-30°C	12	kJ/m ²	
23°C	17	kJ/m ²	
Charpy Unnotched Impact Strength ⁴			ISO 179/1eU
-30°C	60	kJ/m ²	
23°C	50	kJ/m ²	
Notched Izod Impact Strength ⁵			ISO 180/1A

-40°C	12	kJ/m ²	
-30°C	12	kJ/m ²	
-20°C	14	kJ/m ²	
23°C	18	kJ/m ²	
Unnotched Izod Impact Strength ⁶			ISO 180/1U
-30°C	55	kJ/m ²	
23°C	45	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁷			
0.45 MPa, Unannealed, 100 mm Span	205	°C	ISO 75-2/Be
1.8 MPa, Unannealed, 100 mm Span	175	°C	ISO 75-2/Ae
Vicat Softening Temperature			
--	185	°C	ISO 306/B50
--	186	°C	ISO 306/B120
CLTE			ISO 11359-2
Flow : 23 to 60°C	4.0E-5	cm/cm/°C	
Transverse : 23 to 60°C	1.8E-4	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index	550	V	IEC 60112
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.	2.0 mm/min		
3.	80*10*4 sp=62mm		
4.	80*10*4 sp=62mm		
5.	80*10*4		
6.	80*10*4		
7.	120*10*4		

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