

Staramide BST44

Polyamide 6
Eurostar Engineering Plastics

Message:
Staramide BST44 is a Low Temperature Impact Modified Polyamide 6 Injection Molding Resin

General Information			
Additive	Impact Modifier		
Features	Impact Modified		
	Low Temperature Impact Resistance		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.08	g/cm ³	ISO 1183
Water Absorption (Equilibrium, 23°C, 50% RH)	2.0	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	111		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1900	MPa	ISO 527-2/1
Tensile Stress (Yield)	50.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield	4.1	%	
Break	> 100	%	
Flexural Modulus ¹	1600	MPa	ISO 178
Flexural Stress	60.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ²			ISO 179/1eA
-30°C	60	kJ/m ²	
23°C	75	kJ/m ²	
Charpy Unnotched Impact Strength ³			ISO 179/1eU
-30°C	> 100	kJ/m ²	
23°C	> 100	kJ/m ²	
Notched Izod Impact Strength ⁴			ISO 180/1A
-40°C	50	kJ/m ²	
-20°C	65	kJ/m ²	
23°C	75	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁵			

0.45 MPa, Unannealed, 100 mm Span	140	°C	ISO 75-2/Be
1.8 MPa, Unannealed, 100 mm Span	60.0	°C	ISO 75-2/Ae
Vicat Softening Temperature			
--	165	°C	ISO 306/B50
--	160	°C	ISO 306/B120
CLTE			ISO 11359-2
Flow : 23 to 60°C	9.5E-5	cm/cm/°C	
Transverse : 23 to 60°C	1.2E-4	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity ⁶	> 1.0E+16	ohms	IEC 60093
Volume Resistivity	> 1.0E+16	ohms·cm	IEC 60093
Electric Strength (3.20 mm, in Oil)	16	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
50 Hz	3.00		
60 Hz	3.00		
1 MHz	2.80		
Dissipation Factor			IEC 60250
50 Hz	8.4E-3		
60 Hz	8.4E-3		
1 MHz	0.017		
Comparative Tracking Index			IEC 60112
--	575	V	
Solution B	600	V	
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	220 to 230	°C	
Middle Temperature	230 to 240	°C	
Front Temperature	240 to 250	°C	
Processing (Melt) Temp	240 to 250	°C	
Mold Temperature	60.0 to 90.0	°C	
NOTE			
1.	2.0 mm/min		
2.	80*10*4 sp=62mm		
3.	80*10*4 sp=62mm		
4.	80*10*4		
5.	120*10*4		
6.	ROA		

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