

Staramide BST42

Polyamide 6
Eurostar Engineering Plastics

Message:
Staramide BST42 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	1.10	g/cm ³	ISO 1183
Molding Shrinkage - Flow ¹	1.4 to 1.8	%	Internal Method
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	115		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2500	MPa	ISO 527-2/1
Tensile Stress (Yield)	56.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield	4.0	%	
Break	> 100	%	
Flexural Modulus ²	2000	MPa	ISO 178
Flexural Stress	80.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength ³ (23°C)	> 100	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	13	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁵ (1.8 MPa, Unannealed, 100 mm Span)	77.0	°C	ISO 75-2/Ae
Vicat Softening Temperature	210	°C	ISO 306/B120
CLTE			ISO 11359-2
Flow : 23 to 60°C	9.3E-5	cm/cm/°C	
Transverse : 23 to 60°C	1.2E-4	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method

Comparative Tracking Index		IEC 60112
--	600	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.	Tensile Bar	
2.	2.0 mm/min	
3.	80*10*4 sp=62mm	
4.	80*10*4	
5.	120*10*4	

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