

Staramide BST03

Polyamide 6
Eurostar Engineering Plastics

Message:

Staramide BST03 is an Impact Modified Polyamide 6 Injection Molding Resin

General Information			
Additive	Impact Modifier		
Features	Impact Modified		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.06	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)	110		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2500	MPa	ISO 527-2/1
Tensile Stress (Yield)	55.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield	4.1	%	
Break	> 100	%	
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength ²			ISO 179/1eU
-30°C	> 100	kJ/m ²	
23°C	> 100	kJ/m ²	
Notched Izod Impact Strength ³			ISO 180/1A
-20°C	25	kJ/m ²	
23°C	35	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁴ (1.8 MPa, Unannealed, 100 mm Span)	65.0	°C	ISO 75-2/Ae
Vicat Softening Temperature	180	°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
Comparative Tracking Index			IEC 60112
--	600	V	
Solution B	600	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	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.	80*10*4 sp=62mm		
3.	80*10*4		
4.	120*10*4		

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

