

Staramide BT6

Polyamide 6
Eurostar Engineering Plastics

Message:
Staramide BT6 is a 30% Mineral Filled Polyamide 6 Injection Molding Resin

General Information			
Filler / Reinforcement	Mineral,30% Filler by Weight		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.37	g/cm ³	ISO 1183
Water Absorption (Saturation, 23°C)	6.5	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (L-Scale)	105		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	7500	MPa	ISO 527-2/1
Tensile Stress (Break)	80.0	MPa	ISO 527-2/5
Tensile Strain (Break)	2.0	%	ISO 527-2/5
Flexural Modulus ¹	7000	MPa	ISO 178
Flexural Stress	125	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength ² (23°C)	50	kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength ³ (23°C)	4.0	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁴			
0.45 MPa, Unannealed, 100 mm Span	205	°C	ISO 75-2/Be
1.8 MPa, Unannealed, 100 mm Span	165	°C	ISO 75-2/Ae
Vicat Softening Temperature	222	°C	ISO 306/B120
CLTE			ISO 11359-2
Flow : 23 to 60°C	4.0E-5	cm/cm/°C	
Transverse : 23 to 60°C	5.0E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index			IEC 60112
--	425	V	
Solution B	350	V	
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm, Tested by E2P)	HB		UL 94
Glow Wire Flammability Index (2.00 mm)	650	°C	IEC 60695-2-12

Oxygen Index	24	%	ISO 4589-2
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 270	°C	
Processing (Melt) Temp	240 to 270	°C	
Mold Temperature	60.0 to 80.0	°C	
NOTE			
1.	2.0 mm/min		
2.	80*10*4 sp=62mm		
3.	80*10*4		
4.	120*10*4		

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