

Staramide RB006S

Polyamide 66

Eurostar Engineering Plastics

Message:

Staramide RB006S is a 30% Glass Bead Reinforced Polyamide 66 Injection Molding Resin (also known as Staramide 66 30K S3)

General Information			
Filler / Reinforcement	Glass Bead,30% Filler by Weight		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.37	g/cm ³	ASTM D792
Molding Shrinkage - Flow ¹	1.1 to 1.5	%	Internal Method
Water Absorption (Saturation, 23°C)	5.5	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4500	MPa	ISO 527-2/1
Tensile Stress (Break)	80.0	MPa	ISO 527-2/5
Tensile Strain (Break)	9.0	%	ISO 527-2/5
Flexural Modulus ²	4400	MPa	ISO 178
Flexural Stress	130	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength ³ (23°C)	30	kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength ⁴			ISO 180/1A
-40°C	2.0	kJ/m ²	
-20°C	3.0	kJ/m ²	
23°C	4.0	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁵			
0.45 MPa, Unannealed, 100 mm Span	235	°C	ISO 75-2/Be
1.8 MPa, Unannealed, 100 mm Span	100	°C	ISO 75-2/Ae
Vicat Softening Temperature	253	°C	ISO 306/A50
CLTE			ISO 11359-2
Flow : 23 to 60°C	4.0E-5	cm/cm/°C	
Transverse : 23 to 60°C	4.0E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index			IEC 60112
--	500	V	
Solution B	250	V	
Flammability	Nominal Value	Unit	Test Method

Flame Rating (1.60 mm, Tested by E2P)	HB	UL 94
Oxygen Index	26	%
		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	270 to 290	°C
Middle Temperature	260 to 280	°C
Front Temperature	260 to 290	°C
Processing (Melt) Temp	260 to 290	°C
Mold Temperature	70.0 to 120	°C

NOTE

- | | |
|----|-------------|
| 1. | Tensile Bar |
| 2. | 2.0 mm/min |
| 3. | 80*10*4 |
| 4. | 80*10*4 |
| 5. | 120*10*4 |

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