

Staramide AS10

Polyamide 66

Eurostar Engineering Plastics

Message:

Staramide AS10 is a 50% Glass Bead Reinforced Polyamide 66 Injection Molding Resin

General Information			
Filler / Reinforcement	Glass Bead,50% Filler by Weight		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.56	g/cm ³	ISO 1183
Molding Shrinkage - Flow ¹	0.50 to 0.80	%	Internal Method
Water Absorption (Saturation, 23°C)	4.5	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	6200	MPa	ISO 527-2/1
Tensile Stress (Break)	85.0	MPa	ISO 527-2/5
Tensile Strain (Break)	2.5	%	ISO 527-2/5
Flexural Modulus ²	6000	MPa	ISO 178
Flexural Stress	140	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	3.0	kJ/m ²	
-20°C	4.0	kJ/m ²	
23°C	5.0	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁵			
0.45 MPa, Unannealed, 100 mm Span	245	°C	ISO 75-2/Be
1.8 MPa, Unannealed, 100 mm Span	175	°C	ISO 75-2/Ae
Vicat Softening Temperature	255	°C	ISO 306/A50
CLTE			ISO 11359-2
Flow : 23 to 60°C	3.0E-5	cm/cm/°C	
Transverse : 23 to 60°C	3.0E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index			IEC 60112
--	500	V	
Solution B	400	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	260 to 280	°C
Middle Temperature	270 to 280	°C
Front Temperature	270 to 290	°C
Processing (Melt) Temp	270 to 290	°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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