

Staramide RF00AES

Polyamide 66/6 Copolymer
Eurostar Engineering Plastics

Message:

Staramide RF00AES a 50 % Glass Fiber Reinforced Polyamide 66 / Polyamide 6 Injection Molding Resin (also known as Staramide 66 50V S3)

General Information			
Filler / Reinforcement	Glass Fiber,50% Filler by Weight		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.58	g/cm ³	ISO 1183
Molding Shrinkage - Flow ¹	0.10 to 0.25	%	Internal Method
Water Absorption			ISO 62
Saturation, 23°C	2.8	%	
Equilibrium, 23°C, 50% RH	0.85	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (L-Scale)	114		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	16000	MPa	ISO 527-2/1
Tensile Stress (Break)	210	MPa	ISO 527-2/5
Tensile Strain (Break)	2.0	%	ISO 527-2/5
Flexural Modulus ²	15000	MPa	ISO 178
Flexural Stress	310	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength ³			ISO 180/1A
-40°C	11	kJ/m ²	
-30°C	11	kJ/m ²	
-20°C	12	kJ/m ²	
23°C	13	kJ/m ²	
Unnotched Izod Impact Strength ⁴			ISO 180/1U
-30°C	45	kJ/m ²	
23°C	55	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁵ (1.8 MPa, Unannealed, 100 mm Span)	235	°C	ISO 75-2/Ae
Vicat Softening Temperature			
--	240	°C	ISO 306/A50
--	230	°C	ISO 306/B50
--	232	°C	ISO 306/B120

Ball Pressure Test ⁶ (125°C)	Pass		IEC 60695-10-2
CLTE			ISO 11359-2
Flow : 23 to 60°C	1.2E-5	cm/cm/°C	
Transverse : 23 to 60°C	1.4E-4	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity ⁷	> 1.0E+16	ohms	IEC 60093
Volume Resistivity	> 1.0E+16	ohms·cm	IEC 60093
Electric Strength (3.20 mm, in Oil)	19	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
50 Hz	3.40		
60 Hz	3.40		
1 MHz	3.20		
Dissipation Factor			IEC 60250
50 Hz	6.8E-3		
60 Hz	6.8E-3		
1 MHz	0.015		
Comparative Tracking Index			IEC 60112
--	500	V	
Solution B	350	V	
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.750 mm	HB		
3.00 mm	HB		
Glow Wire Flammability Index (2.00 mm)	650	°C	IEC 60695-2-12
Oxygen Index	27	%	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	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		
4.	80*10*4		
5.	120*10*4		
6.	125 ±2°C		
7.	ROA		

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