

Staramide AG7K

Polyamide 66

Eurostar Engineering Plastics

Message:

Staramide AG7K is a Heat and Hydrolytically Stabilized, 35 % Glass Fiber Reinforced Polyamide 66 Injection Molding Resin

General Information			
UL YellowCard	E340012-100755263		
Filler / Reinforcement	Glass Fiber,35% Filler by Weight		
Additive	Heat Stabilizer		
	Hydrolysis Resistant		
Features	Heat Stabilized		
	Hydrolytically Stable		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.41	g/cm ³	ISO 1183
Molding Shrinkage - Flow ¹	0.15 to 0.30	%	Internal Method
Water Absorption			ISO 62
Saturation, 23°C	4.5	%	
Equilibrium, 23°C, 50% RH	1.1	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (L-Scale)	114		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	10500	MPa	ISO 527-2/1
Tensile Stress (Break)	180	MPa	ISO 527-2/5
Tensile Strain (Break)	3.3	%	ISO 527-2/5
Flexural Modulus ²	10000	MPa	ISO 178
Flexural Stress	280	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ³			ISO 179/1eA
-30°C	9.0	kJ/m ²	
23°C	10	kJ/m ²	
Charpy Unnotched Impact Strength ⁴			ISO 179/1eU
-30°C	60	kJ/m ²	
23°C	80	kJ/m ²	
Notched Izod Impact Strength ⁵			ISO 180/1A
-40°C	9.0	kJ/m ²	

-30°C	10	kJ/m ²	
-20°C	11	kJ/m ²	
23°C	12	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁶			
0.45 MPa, Unannealed, 100 mm Span	260	°C	ISO 75-2/Be
1.8 MPa, Unannealed, 100 mm Span	258	°C	ISO 75-2/Ae
Vicat Softening Temperature			
--	256	°C	ISO 306/B50
--	255	°C	ISO 306/B120
Ball Pressure Test ⁷ (125°C)	Pass		IEC 60695-10-2
CLTE			ISO 11359-2
Flow : 23 to 60°C	2.2E-5	cm/cm/°C	
Transverse : 23 to 60°C	7.8E-5	cm/cm/°C	
Thermal Conductivity	0.33	W/m/K	ISO 8302
RTI Elec	65.0	°C	UL 746
RTI Imp	65.0	°C	UL 746
RTI Str	65.0	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity ⁸	> 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	375	V	
Flammability	Nominal Value	Unit	Test Method
Burning Rate			FMVSS 302
2.00 mm	6.0	mm/min	
3.00 mm	2.0	mm/min	
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
Glow Wire Ignition Temperature (2.00 mm)	650	°C	IEC 60695-2-13

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

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|----|-----------------|
| 1. | Tensile Bar |
| 2. | 2.0 mm/min |
| 3. | 80*10*4 sp=62mm |
| 4. | 80*10*4 sp=62mm |
| 5. | 80*10*4 |
| 6. | 120*10*4 |
| 7. | 125°C ±2°C |
| 8. | ROA |

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