

Staramide ALY540A

Polyamide 66

Eurostar Engineering Plastics

Message:

Staramide ALY540A is a Glass Fiber Reinforced, Mineral Filled Polyamide 66 based Alloy

General Information			
Filler / Reinforcement	Glass\Mineral		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.24	g/cm ³	ISO 1183
Molding Shrinkage - Flow ¹	0.70 to 0.90	%	Internal Method
Water Absorption (Saturation, 23°C)	5.5	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4200	MPa	ISO 527-2/1
Tensile Stress (Break)	70.0	MPa	ISO 527-2/5
Tensile Strain (Break)	3.0	%	ISO 527-2/5
Flexural Modulus ²	3800	MPa	ISO 178
Flexural Stress	115	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength ³			ISO 180/1A
-40°C	3.0	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 ⁴			
0.45 MPa, Unannealed, 100 mm Span	218	°C	ISO 75-2/Be
1.8 MPa, Unannealed, 100 mm Span	165	°C	ISO 75-2/Ae
Vicat Softening Temperature	225	°C	ISO 306/B120
CLTE			ISO 11359-2
Flow : 23 to 60°C	4.5E-5	cm/cm/°C	
Transverse : 23 to 60°C	6.0E-5	cm/cm/°C	
Flammability	Nominal Value		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	%	
Hopper Temperature	60.0 to 80.0	°C	

Rear Temperature	260 to 280	°C
Middle Temperature	260 to 280	°C
Front Temperature	260 to 280	°C
Processing (Melt) Temp	260 to 280	°C
Mold Temperature	70.0 to 90.0	°C

NOTE

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

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