

Staramide AG3X3

Polyamide 66
Eurostar Engineering Plastics

Message:
Staramide AG3X3 is an Impact Modified, Glass Fiber Reinforced Polyamide 66 Injection Molding Resin

General Information			
UL YellowCard	E340012-100759110		
Filler / Reinforcement	Glass Fiber		
Additive	Impact Modifier		
Features	Impact Modified		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.16	g/cm ³	ISO 1183
Molding Shrinkage - Flow ¹	0.50 to 0.80	%	Internal Method
Water Absorption			ISO 62
Saturation, 23°C	6.5	%	
Equilibrium, 23°C, 50% RH	1.3	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (L-Scale)	121		ISO 2039-2
Ball Indentation Hardness (H 358/30)	131	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4800	MPa	ISO 527-2/1
Tensile Stress (Break)	100	MPa	ISO 527-2/5
Tensile Strain (Break)	3.7	%	ISO 527-2/5
Flexural Modulus ²	4100	MPa	ISO 178
Flexural Stress	160	MPa	ISO 178
Taber Abrasion Resistance (1000 Cycles, 1000 g, CS-17 Wheel)	20.0	mg	Internal Method
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ³			ISO 179/1eA
-30°C	8.0	kJ/m ²	
23°C	13	kJ/m ²	
Charpy Unnotched Impact Strength ⁴			ISO 179/1eU
-30°C	50	kJ/m ²	
23°C	70	kJ/m ²	
Notched Izod Impact Strength ⁵			ISO 180/1A
-40°C	6.0	kJ/m ²	
-30°C	6.0	kJ/m ²	

-20°C	7.0	kJ/m ²	
23°C	10	kJ/m ²	
Unnotched Izod Impact Strength ⁶ (23°C)	65	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁷ (0.45 MPa, Unannealed, 100 mm Span)	242	°C	ISO 75-2/Be
Vicat Softening Temperature	245	°C	ISO 306/B120
Ball Pressure Test ⁸ (125°C)	Pass		IEC 60695-10-2
CLTE			ISO 11359-2
Flow : 23 to 60°C	3.5E-5	cm/cm/°C	
Transverse : 23 to 60°C	1.0E-4	cm/cm/°C	
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
Electric Strength (3.20 mm, in Oil)	16	kV/mm	IEC 60243-1
Comparative Tracking Index			IEC 60112
--	600	V	
Solution B	600	V	
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.750 mm	HB		
3.00 mm	HB		
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 sp=62mm		
5.	80*10*4		
6.	80*10*4		
7.	120*10*4		
8.	125°C ±2°C		

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