

Staramide AST44

Polyamide 66
Eurostar Engineering Plastics

Message:
Staramide AST44 is a Low Temperature Impact Modified Polyamide 66 Injection Molding Resin

General Information			
UL YellowCard	E340012-100759112		
Additive	Impact Modifier		
Features	Impact Modified		
	Low Temperature Impact Resistance		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.07	g/cm ³	ISO 1183
Molding Shrinkage - Flow ¹	1.9 to 2.1	%	Internal Method
Water Absorption			ISO 62
Saturation, 23°C	5.5	%	
Equilibrium, 23°C, 50% RH	1.5	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	112		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1900	MPa	ISO 527-2/1
Tensile Stress (Yield)	50.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield	4.6	%	
Break	> 100	%	
Flexural Modulus ²	1900	MPa	ISO 178
Flexural Stress	72.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ³			ISO 179/1eA
-30°C	65	kJ/m ²	
23°C	80	kJ/m ²	
Charpy Unnotched Impact Strength ⁴			ISO 179/1eU
-30°C	> 100	kJ/m ²	
23°C	> 100	kJ/m ²	
Notched Izod Impact Strength ⁵			ISO 180/1A
-40°C	55	kJ/m ²	
-20°C	65	kJ/m ²	

23°C	80	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁶			
0.45 MPa, Unannealed, 100 mm Span	220	°C	ISO 75-2/Be
1.8 MPa, Unannealed, 100 mm Span	72.0	°C	ISO 75-2/Ae
Vicat Softening Temperature			
--	192	°C	ISO 306/B50
--	190	°C	ISO 306/B120
CLTE			ISO 11359-2
Flow : 23 to 60°C	1.0E-4	cm/cm/°C	
Transverse : 23 to 60°C	1.2E-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
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)	16	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
50 Hz	2.90		
60 Hz	2.90		
1 MHz	2.70		
Dissipation Factor			IEC 60250
50 Hz	6.7E-3		
60 Hz	6.7E-3		
1 MHz	0.015		
Comparative Tracking Index	550	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Burning Rate (2.00 mm)	15	mm/min	FMVSS 302
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	250 to 260	°C	
Middle Temperature	265 to 275	°C	
Front Temperature	265 to 275	°C	
Processing (Melt) Temp	265 to 275	°C	
Mold Temperature	60.0 to 80.0	°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.	120*10*4
7.	ROA

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