

Staramide AST43

Polyamide 66
Eurostar Engineering Plastics

Message:

Staramide AST43 is a Low Temperature Impact Modified Polyamide 66 Injection Molding Resin

General Information			
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	1.09	g/cm ³	ISO 1183
Molding Shrinkage - Flow ¹	1.0 to 1.2	%	Internal Method
Water Absorption (Saturation, 23°C)	5.5	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	110		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2300	MPa	ISO 527-2/1
Tensile Stress (Yield)	60.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield	4.6	%	
Break	> 100	%	
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength ²			ISO 179/1eU
-30°C	> 100	kJ/m ²	
23°C	> 100	kJ/m ²	
Notched Izod Impact Strength ³			ISO 180/1A
-40°C	30	kJ/m ²	
-20°C	40	kJ/m ²	
23°C	50	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁴			
0.45 MPa, Unannealed, 100 mm Span	210	°C	ISO 75-2/Be
1.8 MPa, Unannealed, 100 mm Span	80.0	°C	ISO 75-2/Ae
CLTE			ISO 11359-2
Flow : 23 to 60°C	1.0E-4	cm/cm/°C	
Transverse : 23 to 60°C	1.1E-4	cm/cm/°C	

Electrical	Nominal Value	Unit	Test Method
Surface Resistivity ⁵	> 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			IEC 60112
--	600	V	
Solution B	600	V	
Flammability	Nominal Value	Unit	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	%	
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.	80*10*4 sp=62mm		
3.	80*10*4		
4.	120*10*4		
5.	ROA		

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