

Staramide AST03

Polyamide 66
Eurostar Engineering Plastics

Message:
Staramide AST03 is an Impact Modified Polyamide 66 Injection Molding Resin

General Information			
UL YellowCard	E340012-100759111		
Additive	Impact Modifier		
Features	Impact Modified		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.08	g/cm ³	ISO 1183
Molding Shrinkage - Flow ¹	1.3 to 2.0	%	Internal Method
Water Absorption			ISO 62
Saturation, 23°C	6.0	%	
Equilibrium, 23°C, 50% RH	1.6	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	108		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2500	MPa	ISO 527-2/1
Tensile Stress (Yield)	65.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield	4.6	%	
Break	60	%	
Flexural Modulus ²	2700	MPa	ISO 178
Flexural Stress	90.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength ³ (23°C)	> 100	kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength ⁴			ISO 180/1A
-40°C	35	kJ/m ²	
-20°C	45	kJ/m ²	
23°C	55	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁵			
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
Vicat Softening Temperature			

--	221	°C	ISO 306/B50
--	220	°C	ISO 306/B120
CLTE			ISO 11359-2
Flow : 23 to 60°C	9.5E-5	cm/cm/°C	
Transverse : 23 to 60°C	1.3E-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 ⁶	> 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			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		
5.	120*10*4		

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