

Staramide AST42K

Polyamide 66
Eurostar Engineering Plastics

Message:

Staramide AST42K 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	1.10	g/cm ³	ISO 1183
Molding Shrinkage - Flow ¹	1.5 to 2.0	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2600	MPa	ISO 527-2/1
Tensile Stress (Break)	65.0	MPa	ISO 527-2/50
Tensile Strain			
Yield	4.5	%	ISO 527-2/50
Break	20	%	ISO 527-2/5
Flexural Modulus ²	2400	MPa	ISO 178
Flexural Stress	90.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength ³			ISO 180/1A
-40°C	9.0	kJ/m ²	
-20°C	11	kJ/m ²	
23°C	12	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁴			
0.45 MPa, Unannealed, 100 mm Span	200	°C	ISO 75-2/Be
1.8 MPa, Unannealed, 100 mm Span	73.0	°C	ISO 75-2/Ae
Vicat Softening Temperature			
--	220	°C	ISO 306/B50
--	225	°C	ISO 306/B120
CLTE			ISO 11359-2
Flow : 23 to 60°C	6.0E-5	cm/cm/°C	
Transverse : 23 to 60°C	9.2E-5	cm/cm/°C	
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 |
| 4. | 120*10*4 |

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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