

Staramide A28K

Polyamide 66
Eurostar Engineering Plastics

Message:
Staramide A28K is an Unreinforced and Heat Stabilized Polyamide 66 Injection Molding Resin

General Information			
Additive	Heat Stabilizer		
Features	Heat Stabilized		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.14	g/cm ³	ISO 1183
Molding Shrinkage - Flow ¹	1.6 to 2.0	%	Internal Method
Water Absorption			ISO 62
Saturation, 23°C	8.5	%	
Equilibrium, 23°C, 50% RH	2.0	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	118		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3000	MPa	ISO 527-2/1
Tensile Stress (Yield)	85.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield	3.8	%	
Break	> 20	%	
Flexural Modulus ²	2800	MPa	ISO 178
Flexural Stress	105	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ³			ISO 179/1eA
-30°C	3.0	kJ/m ²	
23°C	5.0	kJ/m ²	
Charpy Unnotched Impact Strength ⁴			ISO 179/1eU
-30°C	> 100	kJ/m ²	
23°C	> 270	kJ/m ²	
Notched Izod Impact Strength ⁵			ISO 180/1A
-40°C	3.0	kJ/m ²	
-30°C	3.0	kJ/m ²	
-20°C	4.0	kJ/m ²	
23°C	5.0	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method

Heat Deflection Temperature ⁶			
0.45 MPa, Unannealed, 100 mm Span	210	°C	ISO 75-2/Be
1.8 MPa, Unannealed, 100 mm Span	90.0	°C	ISO 75-2/Ae
Vicat Softening Temperature			
--	243	°C	ISO 306/B50
--	240	°C	ISO 306/B120
Ball Pressure Test ⁷ (125°C)	Pass		IEC 60695-10-2
CLTE			ISO 11359-2
Flow : 23 to 60°C	8.0E-5	cm/cm/°C	
Transverse : 23 to 60°C	8.0E-5	cm/cm/°C	
Thermal Conductivity	0.29	W/m/K	ISO 8302
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity ⁸	> 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	3.20		
60 Hz	3.20		
1 MHz	2.90		
Dissipation Factor			IEC 60250
50 Hz	5.5E-3		
60 Hz	5.5E-3		
1 MHz	0.017		
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)	V-2		UL 94
Oxygen Index	26	%	ISO 4589-2
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 270	°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.	120*10*4
7.	125°C ±2°C
8.	ROA

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