

Staramide AG7

Polyamide 66

Eurostar Engineering Plastics

Message:

Staramide AG7 is a 35 % Glass Fiber Reinforced Polyamide 66 Injection Molding Resin

| General Information | | | |
|---|----------------------------------|-------------------|-----------------|
| UL YellowCard | E340012-100755262 | | |
| Filler / Reinforcement | Glass Fiber,35% Filler by Weight | | |
| RoHS Compliance | RoHS Compliant | | |
| Processing Method | Injection Molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 1.41 | g/cm ³ | ISO 1183 |
| Molding Shrinkage - Flow ¹ | 0.15 to 0.30 | % | Internal Method |
| Water Absorption | | | ISO 62 |
| Saturation, 23°C | 4.5 | % | |
| Equilibrium, 23°C, 50% RH | 1.1 | % | |
| Hardness | Nominal Value | Unit | Test Method |
| Rockwell Hardness (L-Scale) | 115 | | ISO 2039-2 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus | 10500 | MPa | ISO 527-2/1 |
| Tensile Stress (Break) | 200 | MPa | ISO 527-2/5 |
| Tensile Strain (Break) | 3.3 | % | ISO 527-2/5 |
| Flexural Modulus ² | 10000 | MPa | ISO 178 |
| Flexural Stress | 290 | MPa | ISO 178 |
| Impact | Nominal Value | Unit | Test Method |
| Charpy Notched Impact Strength ³ | | | ISO 179/1eA |
| -30°C | 9.0 | kJ/m ² | |
| 23°C | 10 | kJ/m ² | |
| Charpy Unnotched Impact Strength ⁴ | | | ISO 179/1eU |
| -30°C | 65 | kJ/m ² | |
| 23°C | 85 | kJ/m ² | |
| Notched Izod Impact Strength ⁵ | | | ISO 180/1A |
| -40°C | 9.0 | kJ/m ² | |
| -30°C | 10 | kJ/m ² | |
| -20°C | 11 | kJ/m ² | |
| 23°C | 12 | kJ/m ² | |
| Thermal | Nominal Value | Unit | Test Method |
| Heat Deflection Temperature ⁶ | | | |
| 0.45 MPa, Unannealed, 100 mm Span | 260 | °C | ISO 75-2/Be |

| | | | |
|---|----------------------|-------------|--------------------|
| 1.8 MPa, Unannealed, 100 mm Span | 258 | °C | ISO 75-2/Ae |
| Vicat Softening Temperature | | | |
| -- | 256 | °C | ISO 306/B50 |
| -- | 255 | °C | ISO 306/B120 |
| Ball Pressure Test ⁷ (125°C) | Pass | | IEC 60695-10-2 |
| CLTE | | | |
| Flow : 23 to 60°C | 2.0E-5 | cm/cm/°C | |
| Transverse : 23 to 60°C | 8.0E-5 | cm/cm/°C | |
| Thermal Conductivity | 0.33 | W/m/K | ISO 8302 |
| 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 ⁸ | > 1.0E+16 | ohms | IEC 60093 |
| Volume Resistivity | > 1.0E+16 | ohms·cm | IEC 60093 |
| Electric Strength (3.20 mm, in Oil) | 19 | kV/mm | IEC 60243-1 |
| Relative Permittivity | | | |
| 50 Hz | 3.40 | | |
| 60 Hz | 3.40 | | |
| 1 MHz | 3.20 | | |
| Dissipation Factor | | | |
| 50 Hz | 6.8E-3 | | IEC 60250 |
| 60 Hz | 6.8E-3 | | |
| 1 MHz | 0.015 | | |
| Comparative Tracking Index | | | |
| -- | 500 | V | IEC 60112 |
| Solution B | 375 | V | |
| Flammability | Nominal Value | Unit | Test Method |
| Burning Rate | | | |
| 2.00 mm | 6.0 | mm/min | FMVSS 302 |
| 3.00 mm | 2.0 | mm/min | |
| Flame Rating | | | |
| 0.750 mm | HB | | UL 94 |
| 3.00 mm | HB | | |
| Glow Wire Flammability Index (2.00 mm) | 650 | °C | IEC 60695-2-12 |
| 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 280 | °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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