

# Staramide AS3

Polyamide 66

Eurostar Engineering Plastics

Message:

Staramide AS3 is 15 % Glass Bead Reinforced Polyamide 66 Injection Molding Resin

| General Information                                  |                                  |                   |                 |
|------------------------------------------------------|----------------------------------|-------------------|-----------------|
| Filler / Reinforcement                               | Glass Bead, 15% Filler by Weight |                   |                 |
| RoHS Compliance                                      | RoHS Compliant                   |                   |                 |
| Processing Method                                    | Injection Molding                |                   |                 |
| Physical                                             | Nominal Value                    | Unit              | Test Method     |
| Density                                              | 1.23                             | g/cm <sup>3</sup> | ISO 1183        |
| Molding Shrinkage - Flow <sup>1</sup>                | 1.2 to 1.6                       | %                 | Internal Method |
| Mechanical                                           | Nominal Value                    | Unit              | Test Method     |
| Tensile Modulus                                      | 3700                             | MPa               | ISO 527-2/1     |
| Tensile Stress                                       |                                  |                   | ISO 527-2/5     |
| Yield                                                | 75.0                             | MPa               |                 |
| Break                                                | 80.0                             | MPa               |                 |
| Tensile Strain (Break)                               | 4.0                              | %                 | ISO 527-2/5     |
| Flexural Modulus <sup>2</sup>                        | 3200                             | MPa               | ISO 178         |
| Flexural Stress                                      | 125                              | MPa               | ISO 178         |
| Impact                                               | Nominal Value                    | Unit              | Test Method     |
| Charpy Notched Impact Strength <sup>3</sup> (23°C)   | 3.0                              | kJ/m <sup>2</sup> | ISO 179/1eA     |
| Charpy Unnotched Impact Strength <sup>4</sup> (23°C) | 20                               | kJ/m <sup>2</sup> | ISO 179/1eU     |
| Notched Izod Impact Strength <sup>5</sup> (23°C)     | 4.0                              | kJ/m <sup>2</sup> | ISO 180/1A      |
| Unnotched Izod Impact Strength <sup>6</sup> (23°C)   | 20                               | kJ/m <sup>2</sup> | ISO 180/1U      |
| Thermal                                              | Nominal Value                    | Unit              | Test Method     |
| Heat Deflection Temperature <sup>7</sup>             |                                  |                   |                 |
| 0.45 MPa, Unannealed, 100 mm Span                    | 230                              | °C                | ISO 75-2/Be     |
| 1.8 MPa, Unannealed, 100 mm Span                     | 85.0                             | °C                | ISO 75-2/Ae     |
| Vicat Softening Temperature                          | 240                              | °C                | ISO 306/B120    |
| CLTE                                                 |                                  |                   | ISO 11359-2     |
| Flow : 23 to 60°C                                    | 5.0E-5                           | cm/cm/°C          |                 |
| Transverse : 23 to 60°C                              | 5.0E-5                           | cm/cm/°C          |                 |
| Electrical                                           | Nominal Value                    | Unit              | Test Method     |
| Comparative Tracking Index                           | 500                              | V                 | IEC 60112       |
| 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       | 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. | 80*10*4         |
| 7. | 120*10*4        |

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