

# Staramide RF00ASXP

Polyamide 66

Eurostar Engineering Plastics

## Message:

Staramide RF00ASXP is a 50 % Glass Fiber Reinforced Polyamide 66 Injection Molding Resin heat stabilized (also known as Staramide 66 G 50V S3)

| General Information                                |                                  |                   |                 |
|----------------------------------------------------|----------------------------------|-------------------|-----------------|
| UL YellowCard                                      | E340012-100759760                |                   |                 |
| Filler / Reinforcement                             | Glass Fiber,50% Filler by Weight |                   |                 |
| Additive                                           | Heat Stabilizer                  |                   |                 |
| Features                                           | Heat Stabilized                  |                   |                 |
| RoHS Compliance                                    | RoHS Compliant                   |                   |                 |
| Processing Method                                  | Injection Molding                |                   |                 |
| Physical                                           | Nominal Value                    | Unit              | Test Method     |
| Density                                            | 1.57                             | g/cm <sup>3</sup> | ISO 1183        |
| Molding Shrinkage - Flow (4.00 mm)                 | 0.10 to 0.30                     | %                 | Internal Method |
| Water Absorption (23°C, 24 hr)                     | 0.70                             | %                 | ISO 62          |
| Mechanical                                         | Nominal Value                    | Unit              | Test Method     |
| Tensile Modulus                                    | 15400                            | MPa               | ISO 527-2/1     |
| Tensile Stress (Yield)                             | 210                              | MPa               | ISO 527-2/5     |
| Tensile Strain (Break)                             | 2.4                              | %                 | ISO 527-2/5     |
| Flexural Modulus <sup>1</sup>                      | 14100                            | MPa               | ISO 178         |
| Flexural Stress                                    | 305                              | MPa               | ISO 178         |
| Impact                                             | Nominal Value                    | Unit              | Test Method     |
| Notched Izod Impact Strength <sup>2</sup> (23°C)   | 15                               | kJ/m <sup>2</sup> | ISO 180/1A      |
| Unnotched Izod Impact Strength <sup>3</sup> (23°C) | 80                               | kJ/m <sup>2</sup> | ISO 180/1U      |
| Thermal                                            | Nominal Value                    | Unit              | Test Method     |
| Heat Deflection Temperature <sup>4</sup>           |                                  |                   |                 |
| 0.45 MPa, Unannealed, 64.0 mm Span                 | 259                              | °C                | ISO 75-2/Bf     |
| 1.8 MPa, Unannealed, 64.0 mm Span                  | 246                              | °C                | ISO 75-2/Af     |
| CLTE                                               |                                  |                   | ISO 11359-2     |
| Flow : 23 to 60°C                                  | 2.6E-5                           | cm/cm/°C          |                 |
| Transverse : 23 to 60°C                            | 8.4E-5                           | cm/cm/°C          |                 |
| RTI Elec                                           | 130                              | °C                | UL 746          |
| RTI Imp                                            | 125                              | °C                | UL 746          |
| RTI Str                                            | 125                              | °C                | UL 746          |
| Electrical                                         | Nominal Value                    |                   | Test Method     |
| High Amp Arc Ignition (HAI)                        | PLC 0                            |                   | UL 746          |
| Hot-wire Ignition (HWI)                            | PLC 4                            |                   | UL 746          |
| Flammability                                       | Nominal Value                    |                   | Test Method     |

| Flame Rating (1.50 mm) | 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.                     | 2.0 mm/min    |       |
| 2.                     | 80*10*4       |       |
| 3.                     | 80*10*4       |       |
| 4.                     | 80*10*4       |       |

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