

# Starflam AFR430B1

Polyamide 66  
Eurostar Engineering Plastics

Message:

Starflam AFR430B1 is a Flame Retardant, Glass Fiber Reinforced Polyamide 66 Injection Molding Resin

| General Information                                |                   |                   |                 |
|----------------------------------------------------|-------------------|-------------------|-----------------|
| Filler / Reinforcement                             | Glass Fiber       |                   |                 |
| Features                                           | Flame Retardant   |                   |                 |
| RoHS Compliance                                    | RoHS Compliant    |                   |                 |
| Processing Method                                  | Injection Molding |                   |                 |
| Physical                                           | Nominal Value     | Unit              | Test Method     |
| Density                                            | 1.48              | g/cm <sup>3</sup> | ISO 1183        |
| Molding Shrinkage - Flow <sup>1</sup>              | 0.30 to 0.50      | %                 | Internal Method |
| Water Absorption (Saturation, 23°C)                | 5.5               | %                 | ISO 62          |
| Mechanical                                         | Nominal Value     | Unit              | Test Method     |
| Tensile Modulus                                    | 6600              | MPa               | ISO 527-2/1     |
| Tensile Stress (Break)                             | 120               | MPa               | ISO 527-2/5     |
| Tensile Strain (Break)                             | 2.5               | %                 | ISO 527-2/5     |
| Flexural Modulus <sup>2</sup>                      | 6600              | MPa               | ISO 178         |
| Flexural Stress                                    | 170               | MPa               | ISO 178         |
| Impact                                             | Nominal Value     | Unit              | Test Method     |
| Notched Izod Impact Strength <sup>3</sup>          |                   |                   | ISO 180/1A      |
| -40°C                                              | 3.0               | kJ/m <sup>2</sup> |                 |
| -20°C                                              | 4.0               | kJ/m <sup>2</sup> |                 |
| 23°C                                               | 5.0               | kJ/m <sup>2</sup> |                 |
| Unnotched Izod Impact Strength <sup>4</sup> (23°C) | 50                | kJ/m <sup>2</sup> | ISO 180/1U      |
| Thermal                                            | Nominal Value     | Unit              | Test Method     |
| Heat Deflection Temperature <sup>5</sup>           |                   |                   |                 |
| 0.45 MPa, Unannealed, 100 mm Span                  | 245               | °C                | ISO 75-2/Be     |
| 1.8 MPa, Unannealed, 100 mm Span                   | 225               | °C                | ISO 75-2/Ae     |
| Vicat Softening Temperature                        | 247               | °C                | ISO 306/B120    |
| Electrical                                         | Nominal Value     | Unit              | Test Method     |
| Comparative Tracking Index                         | 275               | V                 | IEC 60112       |
| Flammability                                       | Nominal Value     | Unit              | Test Method     |
| Flame Rating (0.750 mm)                            | V-0               |                   | UL 94           |
| Glow Wire Flammability Index (2.00 mm)             | 960               | °C                | IEC 60695-2-12  |
| 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 285   | °C |
| Processing (Melt) Temp | 270 to 285   | °C |
| Mold Temperature       | 60.0 to 90.0 | °C |

| NOTE |             |  |
|------|-------------|--|
| 1.   | Tensile Bar |  |
| 2.   | 2.0 mm/min  |  |
| 3.   | 80*10*4     |  |
| 4.   | 80*10*4     |  |
| 5.   | 120*10*4    |  |

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