

# Starflam® AFR560B1

polyamide 66



Starflam AFR560B1 is a mineral filled and glass filled, flame retardant PA66 for injection molded applications.

## General

|                       |                                 |                 |
|-----------------------|---------------------------------|-----------------|
| Regional Availability | • North America                 | • Europe        |
| Additive              | • Flame Retarding Agent         | • Release agent |
| Features              | • Flame Retardant               | • Halogenated   |
| Agency Rating         | • ISO, 1043 PA66 (GF+MD)30 FR17 |                 |
| UL File Number        | • E70062                        |                 |
| Appearance            | • Natural Color                 |                 |
| Forms                 | • Pellets                       |                 |
| Processing Method     | • Injection Molding             |                 |

## Physical

|         | dry  | cond. | Unit              | Test Standard |
|---------|------|-------|-------------------|---------------|
| Density | 1.59 | -     | g/cm <sup>3</sup> | ISO 1183      |

## Mechanical

|                              | dry  | cond. | Unit | Test Standard |
|------------------------------|------|-------|------|---------------|
| Tensile Modulus (23°C)       | 8600 | -     | MPa  | ISO 527-2     |
| Tensile Stress (Break, 23°C) | 115  | -     | MPa  | ISO 527-2     |
| Tensile Strain (Break, 23°C) | 2    | -     | %    | ISO 527-2     |

## Impact

|                              | dry | cond. | Unit              | Test Standard |
|------------------------------|-----|-------|-------------------|---------------|
| Notched Izod Impact Strength |     |       |                   | ISO 180/1A    |
| +23°C                        | 5   | -     | kJ/m <sup>2</sup> |               |
| -30°C                        | 4   | -     | kJ/m <sup>2</sup> |               |
| -40°C                        | 3   | -     | kJ/m <sup>2</sup> |               |

## Electrical

|                                      | Value | Unit | Test Standard |
|--------------------------------------|-------|------|---------------|
| Comparative Tracking Index (3.00 mm) | 400   | V    | IEC 60112     |

## Flammability

|              | dry | cond. | Unit | Test Standard |
|--------------|-----|-------|------|---------------|
| Flammability |     |       |      | UL 94         |
| 0.750 mm     | V-0 |       | -    |               |
| 3.00 mm      | V-0 |       | -    |               |
| Oxygen index | 30  | *     | %    | EN ISO 4589-2 |

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| Injection                     | Value     | Unit |
|-------------------------------|-----------|------|
| Drying Temperature            | 75 - 85   | °C   |
| Drying Time                   | 4         | h    |
| Suggested Max Moisture        | 0.2       | %    |
| Rear Temperature              | 260 - 280 | °C   |
| Middle Temperature            | 270 - 280 | °C   |
| Front Temperature             | 270 - 280 | °C   |
| Nozzle temperature            | 270 - 280 | °C   |
| Processing (Melt) Temperature | 270 - 280 | °C   |
| Mold Temperature              | 60 - 90   | °C   |

