

**Product Texts**

Starflam AFR200Y is an unfilled, flame retardant, heat stabilized PA66 for injection molded applications. The material is halogen free and red phosphorus free.

| Processing/Physical Characteristics        | dry / cond | Unit | Test Standard   |
|--|------------|------|-----------------|
| <b>ISO Data</b>                            |            |      |                 |
| <sup>[C]</sup> Molding shrinkage, parallel | 1.8 / *    | %    | ISO 294-4, 2577 |
| <sup>[C]</sup> Molding shrinkage, normal   | 1.7 / *    | %    | ISO 294-4, 2577 |

[C]: CAMPUS

| Mechanical properties                                | dry / cond  | Unit              | Test Standard |
|--|-------------|-------------------|---------------|
| <b>ISO Data</b>                                      |             |                   |               |
| <sup>[C]</sup> Tensile Modulus                       | 3500 / 1900 | MPa               | ISO 527       |
| <sup>[C]</sup> Yield stress                          | 80 / 49     | MPa               | ISO 527       |
| <sup>[C]</sup> Yield strain                          | 4 / 16      | %                 | ISO 527       |
| <sup>[C]</sup> Charpy impact strength, +23°C         | 120 / 185   | kJ/m <sup>2</sup> | ISO 179/1eU   |
| <sup>[C]</sup> Charpy impact strength, -30°C         | 120 / 150   | kJ/m <sup>2</sup> | ISO 179/1eU   |
| <sup>[C]</sup> Charpy notched impact strength, +23°C | 4.4 / 6.5   | kJ/m <sup>2</sup> | ISO 179/1eA   |
| <sup>[C]</sup> Charpy notched impact strength, -30°C | 4.5 / 4.3   | kJ/m <sup>2</sup> | ISO 179/1eA   |

[C]: CAMPUS

| Thermal properties                                      | dry / cond | Unit  | Test Standard   |
|---|------------|-------|-----------------|
| <b>ISO Data</b>   |            |       |                 |
| <sup>[C]</sup> Melting temperature, 10°C/min            | 260 / *    | °C    | ISO 11357-1/-3  |
| <sup>[C]</sup> Temp. of deflection under load, 1.80 MPa | 81 / *     | °C    | ISO 75-1/-2     |
| <sup>[C]</sup> Temp. of deflection under load, 0.45 MPa | 228 / *    | °C    | ISO 75-1/-2     |
| <sup>[C]</sup> Burning Behav. at 1.5 mm nom. thickn.    | V-0 / *    | class | IEC 60695-11-10 |
| <sup>[C]</sup> Oxygen index                             | 31 / *     | %     | ISO 4589-1/-2   |

[C]: CAMPUS

| Electrical properties            | dry / cond | Unit  | Test Standard |
|----------------------------------|------------|-------|---------------|
| <b>ISO Data</b>                  |            |       |               |
| <sup>[C]</sup> Electric strength | 31 / 28    | kV/mm | IEC 60243-1   |

[C]: CAMPUS

| Other properties                   | dry / cond | Unit              | Test Standard  |
|------------------------------------|------------|-------------------|----------------|
| <sup>[C]</sup> Water absorption    | 1.9 / *    | %                 | Sim. to ISO 62 |
| <sup>[C]</sup> Humidity absorption | 1.1 / *    | %                 | Sim. to ISO 62 |
| <sup>[C]</sup> Density             | 1180 / -   | kg/m <sup>3</sup> | ISO 1183       |

[C]: CAMPUS

**Characteristics****Processing**

Injection Molding

**Delivery form**

Pellets

**Additives**

Release agent

**Special Characteristics**

Flame retardant, Halogen-free, Phosphorus-free, Heat stabilized or stable to heat

**Regional Availability**

North America, Europe