

# CELSTRAN® PA66-AF35-01 AF3003 NATURAL 6MM

## CELSTRAN® Long Fibre

Celstran® PA66-AF35-01 is a 35% long aramid fiber Polyamide. Natural. This material imparts excellent wear resistance along with impact and modulus properties that can only be achieved through the use of long fiber technology. This product is a shorter pellet length at 6mm.

### Product information

|                      |              |           |
|----------------------|--------------|-----------|
| Resin Identification | PA66-LAF35   | ISO 1043  |
| Part Marking Code    | >PA66-LAF35< | ISO 11469 |

### Typical mechanical properties

|                                       |                      |              |
|---------------------------------------|----------------------|--------------|
| Tensile modulus                       | 9200 MPa             | ISO 527-1/-2 |
| Tensile stress at break, 5mm/min      | 125 MPa              | ISO 527-1/-2 |
| Tensile strain at break, 5mm/min      | 1.9 %                | ISO 527-1/-2 |
| Flexural modulus                      | 8400 MPa             | ISO 178      |
| Flexural strength                     | 180 MPa              | ISO 178      |
| Charpy notched impact strength, 23 °C | 14 kJ/m <sup>2</sup> | ISO 179/1eA  |
| Poisson's ratio                       | 0.34 <sup>[C]</sup>  |              |

[C]: Calculated

### Injection

|                                 |              |
|---------------------------------|--------------|
| Drying Recommended              | yes          |
| Drying Temperature              | 80 °C        |
| Drying Time, Dehumidified Dryer | 2 - 4 h      |
| Processing Moisture Content     | ≤0.2 %       |
| Melt Temperature Optimum        | 290 °C       |
| Min. melt temperature           | 280 °C       |
| Max. melt temperature           | 305 °C       |
| Screw tangential speed          | ≤0.2 m/s     |
| Mold Temperature Optimum        | 110 °C       |
| Min. mould temperature          | 70 °C        |
| Max. mould temperature          | 120 °C       |
| Hold pressure range             | 50 - 100 MPa |

### Characteristics

|                         |  |
|-------------------------|--|
| Processing              | Injection Moulding   |
| Special characteristics | Heat stabilised or stable to heat, Low wear / Low friction |