

# Ignis® M180-06 LSF

## Monofilament Fibre



### Technical data sheet

#### Product description

|                     |                          |                      |                             |
|---------------------|--------------------------|----------------------|-----------------------------|
| <b>Product code</b> | M180P0615                |                      |                             |
| <b>Polymer</b>      | <b>Density</b>           | <b>Melting Point</b> | <b>Ignition temperature</b> |
| PP                  | 0.905 kg/dm <sup>3</sup> | 165 °C               | > 360°C                     |

#### Properties

| Physical Properties     | Standard        | Performance | Tolerance    |
|-------------------------|-----------------|-------------|--------------|
| Equivalent Diameter     | EN 14889-2:2006 | 18 µm       | -0,9/+1,0 µm |
| Length                  | EN 14889-2:2006 | 6 mm        | +/-1,5 mm    |
| Aspect ratio            | EN 14889-2:2006 | 333         | -            |
| Spinfinit content       | EN 14889-2:2006 | 0.5 %       | -0,4/+0,2 %  |
| Moisture content        | EN 14889-2:2006 | 1.5 %       | -1,7/+1,0 %  |
| Number of fibres per kg | EN 14889-2:2006 | 718.390.810 | -            |

| Mechanical Properties | Standard        | Performance | Tolerance |
|-----------------------|-----------------|-------------|-----------|
| Tensile strength      | EN 14889-2:2006 | 434 MPa     | -109 MPa  |

| Effect on consistency of concrete | Standard        | Performance |   |
|-----------------------------------|-----------------|-------------|---|
| Vebe time - 0,6kg                 | EN 14889-2:2006 | -           |   |
| Vebe time - 0,75kg                | EN 14889-2:2006 | -           |   |
| Vebe time - 0,9kg                 | EN 14889-2:2006 | -           |   |
| Vebe time - 0,91kg                | EN 14889-2:2006 | 7,2 (7) s   |   |
| Vebe time - 1,0kg                 | EN 14889-2:2006 | 12 (9,3) s  |   |
| Vebe time - 1,2kg                 | EN 14889-2:2006 | -           |   |
| Plastic Shrinkage reduction       | ASTM C1579-13   | -           | - |

| CE regulation | Standard        | Performance |  |
|---------------|-----------------|-------------|--|
| Class         | EN 14889-2:2006 | Ia          |  |

#### Advantages

Special surfactant coatings enable excellent dispersion of individual filaments, allowing the formation of homogeneous three-dimensional matrix within the concrete mix. The inclusion of ADFIL Construction fibres provides significant technical benefits in both the plastic and hardened state of concrete.

#### Mixing instructions

When adding fibres into a cementitious product careful attention must be taken in the batching and mixing procedure in order to achieve optimum results. If you need further details on the recommended mixing instructions, please consult a member of the ADFIL team.

#### Storage

Fibres must be stored on a clean surface in dry conditions, undercover and away from the possibility of damage.