

Durus® S500 48mm

Macro Monofilament



Technical data sheet

Product description

| Polymer | Density | Melting Point | Ignition temperature |
|-------------|--------------------------|---------------|----------------------|
| Modified PP | 0,922 kg/dm ³ | 165 °C | > 360°C |

Properties

| Physical Properties | Standard | Performance | Tolerance |
|-------------------------|-----------------|-------------|------------|
| Equivalent Diameter | EN 14889-2:2006 | 0,7 mm | +/-0,03 mm |
| Length | EN 14889-2:2006 | 48 mm | +/-2 mm |
| Aspect ratio | EN 14889-2:2006 | 69 | +/- 7 |
| Number of fibres per kg | | 58.714 | |

| Mechanical Properties | Standard | Performance | Tolerance |
|-----------------------|-----------------|-------------|-----------|
| Elastic Modulus | EN 14889-2:2006 | 6000 MPa | -600 MPa |
| Tensile strength | EN 14889-2:2006 | 500 MPa | -37,5 MPa |

| Effect on consistency of concrete | Standard | Performance | Dosage |
|-----------------------------------|-----------------|-------------|--------|
| Vebe Time | EN 14889-2:2006 | 6 s | - |
| Control concrete | EN 14889-2:2006 | 5,7 s | |

| Effect on strength of concrete | Standard | Performance | Dosage |
|--------------------------------|-----------------|-----------------------|--------|
| Strength @CMOD - 0,5mm | EN 14889-2:2006 | 1,5 N/mm ² | 4 kg |
| Strength @CMOD - 3,5mm | EN 14889-2:2006 | 1,7 N/mm ² | |
| Plastic Shrinkage reduction | ASTM C1579-13 | - | - |

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

Advantages

The product will enhance the toughness of the concrete and alleviate the need for steel mesh or steel fibres when used with the appropriate design and at the recommended dosage.

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.