

Ignis® M180-06

Monofilament Fibre



Technical data sheet

Product description

Product code	M180P0611		
Polymer	Density	Melting Point	Ignition temperature
PP	0,905 kg/dm³	160 °C	> 360°C

Properties

Physical Properties	Standard	Performance	Tolerance
Equivalent Diameter	EN 14889-2:2006	18 µm	-0,9/+1,0 µm
Linear Density	EN 14889-2:2006	2,32 0	+/-0,23 0
Length	EN 14889-2:2006	6 mm	+/-1,5 mm
Aspect ratio	EN 14889-2:2006	333,3	-
Spinfinish content	EN 14889-2:2006	0,7 %	-0,5/+0,3 %
Moisture content	EN 14889-2:2006	1,5 %	-1,2/+1,0 %
Number of fibres per kg	EN 14889-2:2006	718390805	-

Mechanical Properties	Standard	Performance	Tolerance
Tensile strength	EN 14889-2:2006	434 MPa	-90 MPa
Tenacity	EN 14889-2:2006	48 cN/tex	-10 cN/tex

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 - 1,2kg	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 at a maximum storage temperature of 30°C, undercover and away from the possibility of damage.

Instruction for use and disposal

The microfibres <15mm supplied are subject to conditions laid down by entry 78 of Annex XVII to Regulation (EC) No 1907/2006. Use only in a matrix such as concrete, mortar or screed; avoid any release to the environment; Dispose of the product in accordance with all applicable national and local regulations. For more detailed instructions, a technical note can be supplied on request.