

Ignis® M180-12

Monofilament Fibre



Technical data sheet

Product description

Product code	M180P1212		
Polymer	Density	Melting Point	Ignition temperature
PP	0,905 kg/dm ³	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	12 mm	+/-1,5 mm
Aspect ratio	EN 14889-2:2006	667	-
Spinfinit content	EN 14889-2:2006	0,7 %	-0,5/+0,3 %
Moisture content	EN 14889-2:2006	1 %	-0,7/+1,0 %
Number of fibres per kg	EN 14889-2:2006	359.195.400	-

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	8 (7) s	
Vebe time - 1,0kg	EN 14889-2:2006	-	
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.