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ENNEATECH
ENGINEERING POLYMERS

ENNEAFIL

reliable, ecological,
powerful

ENNEAFIL

Strong fibres for
future-ready concrete



Power matrix

Ultra-lightweight | high stability
excellent heat-insulating properties

ENNEAFIL - The high-performance polyamide fibre for concrete optimisation with outstanding mechanical properties and a wide range of applications. The use of ENNEAFIL significantly reduces cracking, reduces shrinkage and in some cases replaces or reduces steel reinforcement.

ENNEAFIL Micro-A 12mm

NOTICE

The following information has been compiled to the best of our knowledge and represents the current status of our experience and knowledge. These specifications are product descriptions, however, in no case do they constitute guarantees of quality or durability. The user is obliged to carry out their own examinations and tests in their specific area of business when processing and using our products. The information cannot be transferred to other products made with our material.



COMPANY

ENNEATECH AG

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PRODUCT

Trade name	ENNEAFIL Micro-A 12
Article number	36121
Polymer	PA 6.6
Colour	Colorless
Melting temperature	255-265 °C
Fibre shape	Straight (Longitudinal Direction); Round (Cross Section)
Fibre class	I b – System 1

CHARACTERISTICS

Filament diameter	[DIN EN 14889-2:2006-11]	27	[µm]
Filament length	[DIN EN 14889-2:2006-11]	12	[mm]
Modulus of elasticity	[DIN EN 14889-2:2006-11]	5.15	[GPa]
Tensile strength	[DIN EN 14889-2:2006-11]	900	[MPa]
Density	[DIN EN 14889-2:2006-11]	1.14	[g/cm³]
Water absorption	[DIN EN 14889-2:2006-11]	2.7	[%]
Elongation at break	[DIN EN 14889-2:2006-11]	16	[%]

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PROCESS

Ignition temperature **> 420** [°C]

Glass transition temperature **50-55** [°C]

INFORMATION

Packaging **Foil bags 36 × 0.5 kg per carton (18 kg) or 18 × 1.0 kg per carton (18 kg)**

Filament count **111,000,000 pcs/kg**

Fibre dosage **1.5 kg/m³**

- **VEBE time with fibres 5.9 seconds**

- **VEBE time without fibres 4.1 seconds**

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ENNEAFIL Micro-A 18mm

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PRODUCT

Trade Name	ENNEAFIL Micro-A 18
Article Number	36181
Polymer	PA 6.6
Colour	Colorless
Melting temperature	255-265 °C
Fibre shape	Straight (Longitudinal Direction); Round (Cross Section)
Fibre class	I b – System 1

CHARACTERISTICS

Filament diameter	[DIN EN 14889-2:2006-11]	27	[µm]
Filament length	[DIN EN 14889-2:2006-11]	18	[mm]
Modulus of elasticity	[DIN EN 14889-2:2006-11]	5.15	[GPa]
Tensile strength	[DIN EN 14889-2:2006-11]	900	[MPa]
Density	[DIN EN 14889-2:2006-11]	1.14	[g/cm³]
Water absorption	[DIN EN 14889-2:2006-11]	2.7	[%]
Elongation at break	[DIN EN 14889-2:2006-11]	16	[%]

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PROCESS

Ignition temperature **> 420** [°C]

Glass transition temperature **50-55** [°C]

INFORMATION

Packaging **Foil bags 36 × 0.5 kg per carton (18 kg) or 18 × 1.0 kg per carton (18 kg)**

Filament count **74,000,000 pcs/kg**

Fibre dosage **1.5 kg/m³**

- **VEBE time with fibres 5.9 seconds**

- **VEBE time without fibres 4.1 seconds**

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