Technical PP Fibres

Product Specification

Technical PP Fibres in Tow are allround fibres developed for use in papermaking, paint, filters, battery plates and many other technical applications. They are made of polypropylene and have a number of unique properties, which explain their growing popularity in technical end uses.

Density

Technical PP Fibres are the lightest of all fibres and can therefore produce equivalent products (with same area coverage) using less weight of fibres.

Comparison of fibr (g/cm ³)	e densities
Polypropylene	0.91
Polyester	1.38
Amide	1.44
Polyacrylonitrile	1.18
Viscose/Rayon	1.51
Wool	1.32
Cotton	1.54

Thermal Properties

Technical PP Fibres have very low thermal conductivity, which makes them excellent insulators against heat, sound and electrostatic charge.

Softening point	140-150°C	
Melting range	165° C<3%	
Thermal shrinkage - (hot air 10 min/130 °C)	<3%	
Processing- temperature	max. 130°C	
Absorption Technical PP Fibres do not absorb water:		
Moisture absorption - at 20°C/65% R.H.	0,05%	
Water absorption	<0,1%	

Technical Specifications

Technical PP Fibres in Tow have the following technical properties:

Tensile strength	2.5-3.8 cN/dtex
Elongation	30-180%
Crimp/10 cm	50-70 curves
If textures	
Shrinkage	<3-4%
- At 130°C/10 minutes	
Max. Fixation Temperature	130°C
Softening Temperature	150°C

This is the lowest moisture absorption of all fibres and therefore quick drying is guaranteed.

At the same time, Technical PP Fibres in Tow have the same tensile strength, whether wet or dry, unlike most other fibres.

Comparison of wet tensile strength in % of original strength:

 Polypropylene
 100%

 Polyester
 100%

 Polyamide
 80-90%

 Polyacrylonitrile
 85-95%

 Viscose/Rayon
 50-60%

 Wool
 80-90%

 Cotton
 100-110%

Chemical & Biological Resistance

All Technical PP Fibres in Tow are highly resistant to both acids and alkalis and to more organic chemicals.

Moreover, they do not rot and are not attacked by insects, micro organisms or moulds.

Light & Heat Resistance

Technical PP Fibres in Tow can be specially treated with UV-stabilizers during manufacturing to obtain resistance against the effect of UV in sunlight.

Electrostatic Behaviour

Technical PP Fibres in Tow have very little tendency to acquire static charge. The antistatic property of these fibres is even superior to that of polyamide and wool.

Product Range

Technical PP Fibres in Tow are available within the following ranges:

Dimensions:

1.7-110 dtex

In cable:

1.7 dtex: cable of 450,000 dtex 2.2 dtex: cable of 600,000 dtex 2.8 dtex: cable of 800,000 dtex 3.3 dtex: cable of 900,000 dtex 6.7 dtex: cable of 985,000 detx 7.2 dtex: cable of 1036800 dtex 17 dtex: cable of 1199520 dtex

NB: The cable can be split and delivered as: 1/6, 2/6, 3/6, 4/6, 5/6 and 6/6.

All cable will be delivered in boxes each app. 125 – 175 kg. 4 boxes on each pallets (800x1200)

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