DATASHEET

Fibers for Industrial

FiberVisions® T-153 - for wet web forming

FiberVisions® T-153 polypropylene staple fibers are water dispersible fibers engineered for the manufacture of wetlaid nonwovens and paper.

T-153 fibers offer the following advantages when used in a nonwoven or paper applications:

- They can be blended with cellolusics, cotton, glass or synthetic fibers.

- They enable products to be thermally bonded, thermally formed and/or heat-sealed.

- FiberVisions® T-153 fibers provide better coverage than pulp, cotton, or other synthetic fibers, because of their lower fiber density which results in lighter weight fabrics and sheets.

- They improve the tear strength and flexural properties of the fabric and sheet. “Textile qualities” such as drape, softness and bulkiness are also improved.

- They do not absorb liquids, so the entire flavor in a teabag can flow out.

Applications

FiberVisions® polypropylene fibers are used in applications where improved (wet) strength, thermobonding, sealing, and textile properties are valued.

These properties can improve the performance of wipes, filters, teabags, coffee filters, medical/ surgical sheets and technical paper products.

An FDA approved spin finish can be applied to T-153 fibers.

Process Performance

FiberVisions® T-153 short cut fibers disperse in aqueous mediums and form into sheets on major types of web forming machinery. Unlike other fibers, PP fibers have a density lower than water and therefore T-153 has been engineered for optimum dispersion.

Fiber Properties

FiberVisions® T-153 fiber is a white uncrimped fiber.

Typical fiber properties in the table to the right are guidelines for the customer. Optimization of specific fiber properties is possible, giving the customers a chance to get a unique and exclusive fiber grade.

Product Delivery

FiberVisions® T-153 is supplied in 800 lb gaylord boxes strapped to pallets or in 500 lb returnable containers.

See Overleaf ➔

Typical Properties

FiberVisions® T-153 Fibers

	Nom. Value	Property	Reference
9 km	2.2, 3.0	Titer (denier per filament)	ASTM D1577
	Adjustable	Tenacity (g/denier)	ASTM D3822
	Adjustable	Elongation at break	ASTM D3822
	5, 10, 25	Fiber length (mm)	ASTM 5332
	100% PP 140 - 150°C 162 °C	Raw material Softening point Melting point	As described in ASTM D276
10 cm	Adjustable	Crimp Frequency	ASTM D3937
	Adjustable	Finish level as weight %	Internal FV test

**All measurements are conducted under standard atmosphere according to ISO 554 (23°C/50% relative humidity).*

Polyolefin fibers consist of 99% carbon and hydrogen. The remaining 1% consists of water and applied spin finish. The fiber bales are protected with polyolefin foil and closed with polyester straps. The product and the packaging materials are suitable for recycling and combustion. Inhouse waste should be kept clean to facilitate direct recycling. In disposal of any waste, ensure that all applicable regulations are met.

Performance profile of polypropylene fibers

FiberVisions® fibers have a number of advantages over other man-made fiber types:

Density. The density of polypropylene is 50% lower than polyester and 25% lower than polyamide. This means that lightweight fabrics can be made with excellent bulk and cover from lower denier yarns than from other fiber types.

Comfortable. Polypropylene is a very comfortable and soft fiber. It has a low modulus which ensures good drapeability, and it has excellent resistance to static build-up.

Insulation. Polypropylene has the lowest conductivity of all textile fibers, and it absorbs no moisture.

Resistance. Polypropylene is inert to acids, alkalis and other chemicals. It is resistant to rot, mildew and bacteria. Polypropylene fiber is highly resistant to abrasion and has a toughness superior to most fibers.

Technical Service. FiberVisions believes in offering extensive technical service to its customers. This includes fiber innovation programs, exclusive fiber development, color matching and fiber quality enhancements.

Request a trial for your next application!

FiberVisions®

FiberVisions
3700 Crestwood Parkway, Suite 900
Duluth, Georgia 30096
Tel.: +1 678 578 7240
Fax: +1 678 578 7276
email: sales.industrial@fibervisions.com

FiberVisions a/s
Engdraget 22
DK-6800 Varde, Denmark
Tel.: +45 7994 2200
Fax: +45 7994 2201
e-mail: fibervisions@fibervisions.dk

FiberVisions Textile Products, Ltd.
No. 29 Heng Shan Road
Suzhou, China 215009
Tel.: +86 512 6823 1099
Fax: +86 512 6823 0021
email: sales.suzhou@fibervisions.com

www.fibervisions.com