

## DATA SHEET

# ES FIBERVISIONS™ PTC Fiber

## PP/PET Bicomponent

As a part of *ES FIBERVISIONS* broad product range we offer bicomponent fibers with a polyester core. Our newest offering of these fibers is PTC polypropylene/polyester bicomponent fiber.

The combination of polyester and polypropylene in the PTC bicomponent fiber gives excellent bulkiness, resilience, ultrasonic bondability and processability of a wide range of conditions.

### Key Benefits

- ◇ Ultrasonic bonding
- ◇ Greater resilience
- ◇ Improved bond strength
- ◇ Broad processing window

Polypropylene is well known in the industry for its use in ultrasonic bonding. The polypropylene sheath now provides the customer the option of ultrasonic bonding.

A key benefit of polyester bicomponent fiber is high resiliency vs. other core types.

The melting point difference, (162°C for polypropylene and 252°C for the Polyester core) between the sheath and core polymers results in excellent heat sealing performance for the fabric. This a direct result of the polyester core remaining intact, even after the heat sealing process. The use of polypropylene in the sheath allows for

superior bonding strength when compared to polyethylene.

The high melting point of polyester, compared to polyolefin polymers, provides a broad bonding temperature range for processing of nonwovens.

Optimum fiber properties are achieved by combining the physical properties of the fiber with our advanced finish technology. This gives outstanding liquid acquisition performance in the nonwoven.

### Applications

PTC fiber can be successfully used in a variety of applications such as hygiene acquisition-distribution layers, filters, household products, medical products and other through-air (oven) bonded products, as well as in carded thermal bonded products.

### ES FIBERVISIONS™ PTC fiber - commercially available in:

- ◇ 2.2 - 6.7 dtex
- ◇ Short-cut and Staple-cut
- ◇ Hydrophilic
- ◇ Permanent Hydrophilic
- ◇ Hydrophobic

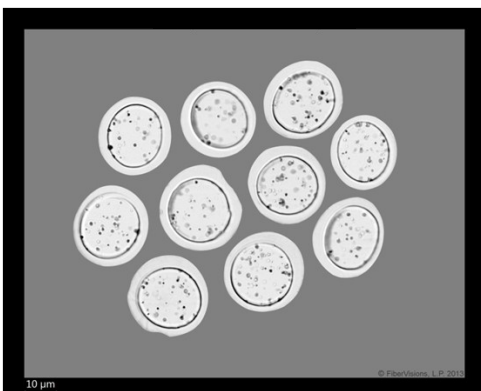


**ES FIBERVISIONS™** has a broad experience with regard to the interrelationship between fiber properties. Under normal conditions, one change of fiber properties will affect several other parameters. We operate our own pilot facilities in major regions of the world and working with you we will design what you need.

**The properties** of our bicomponent fibers can be engineered by enforcing the fiber's native physical and chemical properties and adding the new functionality by means of additives (chemicals, botanicals, etc.), surface treatment and new or additional processes.

**Scientific contributions**, data collection from thousands of trial, and knowledge from our network of co-operation partners are of course available to customers when designing a new fiber. In this way;

**Our experience will benefit your development project.**



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# Contact information

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\* ES FIBERVISIONS is a joint venture of JNC, Japan and FiberVisions, USA

**USA**

*ES FIBERVISIONS, Inc.*  
885 Olympic Drive,  
Athens, GA 30601  
Tel.: +1 706 357 5139  
Fax: +1 706 357 5101  
Email: [es-fibervisions@fibervisions.dk](mailto:es-fibervisions@fibervisions.dk)

**Europe**

*ES FIBERVISIONS ApS*  
Engdraget 22  
6800 Varde, Denmark  
Tel.: +45 7994 2200  
Fax: +45 7994 2201  
Email: [es-fibervisions@fibervisions.dk](mailto:es-fibervisions@fibervisions.dk)

**Asia**

*ES FIBERVISIONS HK Ltd.*  
Unit No. 2810, 28/F  
The Metropolis Tower  
10 Metropolis Drive  
Hung Hom, Kowloon  
Hong Kong  
Tel.: +852 2970 5555  
Fax: +852 2970 5678  
Email: [es-fibervisions@fibervisions.dk](mailto:es-fibervisions@fibervisions.dk)

**Japan**

*ES FIBERVISIONS Co., Ltd.*  
3-6-32, Nakanoshima,  
Kita-Ku,  
Tel.: +81-6-6441-3307  
Fax: +81-6-6441-3347  
Email: [es-fibervisions@fibervisions.dk](mailto:es-fibervisions@fibervisions.dk)

[www.es-fibervisions.com](http://www.es-fibervisions.com)

**USA**

FiberVisions  
3700 Crestwood Parkway, suite 900  
Duluth, Georgia 30096  
Tel.: +1 678 578 7240  
Fax: +1 678 578 7276  
Email: [fibervisions@fibervisions.com](mailto:fibervisions@fibervisions.com)

**Europe**

FiberVisions a/s  
Engdraget 22  
6800 Varde, Denmark  
Tel.: +45 7994 2200  
Fax: +45 7994 2201  
Email: [fibervisions@fibervisions.dk](mailto:fibervisions@fibervisions.dk)

**Asia**

FiberVisions Textile Products, Ltd.  
No. 29 Heng Shan Road  
Suzhou, China 215009  
Tel.: +86 512 6823 1099  
Fax: +86 512 6823 0021  
Email: [fvsuzhou@fibervisions.com](mailto:fvsuzhou@fibervisions.com)

[www.fibervisions.com](http://www.fibervisions.com)