



## ES-Tendon-C fiber

The *ES FIBERVISIONS* joint venture now introduces the ES-Tendon-C fiber.

The fiber has significantly better tenacity performance, which extends the possibilities of the use of using bicomponent fibers in nonwoven designs.

ES-Tendon-C:

- is especially developed for use in calender-bonded nonwoven constructions.
- has 30% higher nonwoven tenacities
- can be carded at higher speeds than standard bico fibers
- has a broader bonding window
- produces nonwovens with superior softness and bulk
- is available in hydrophilic and hydrophobic versions

### The processability of *ES FIBERVISIONS'* ES-Tendon-C fiber

The processability of a fiber is essential for producing viable and cost-effective nonwovens.

Tests at our Pilot carding and bonding line conclude that the ES-Tendon-C fiber has the capability of being processed at higher speeds than standard bicomponent fibers. This will contribute to a more cost effective production.

<b>Typical Properties</b>	
<b>Fibers:</b>	
Dtex:	1.7- 10 dtex
Tensile strength:	2.7-3.8 cN/dtex
Elongation:	100-160%
Fiber length:	40-60 mm
Crimp frequency:	75-100
Spin finish level:	0.2-0.4%
<b>Calender-bonded NW*</b>	
Tenacity/MD:	33-43 N/5 cm
Tenacity/CD:	6-7 N/5 cm
Elongation/MC/CD:	16-22/60-70%
<i>Strike through, Rewet, WRC, and Run-off, % - values depend on the choice of spin finish.</i>	

The fiber offers a broad bonding window (approx. 10°C) to operate within, and the fiber is able to run as fast as or faster than other bicomponent fibers on the carding line. The ES-Tendon-C fibers are especially developed for calender-bonded nonwoven technology.

If an air-through oven bonding technology is used, we recommend the customer to use:

- ES-Delta II
- ES-C Cure fibers
- ES-Adhesion C

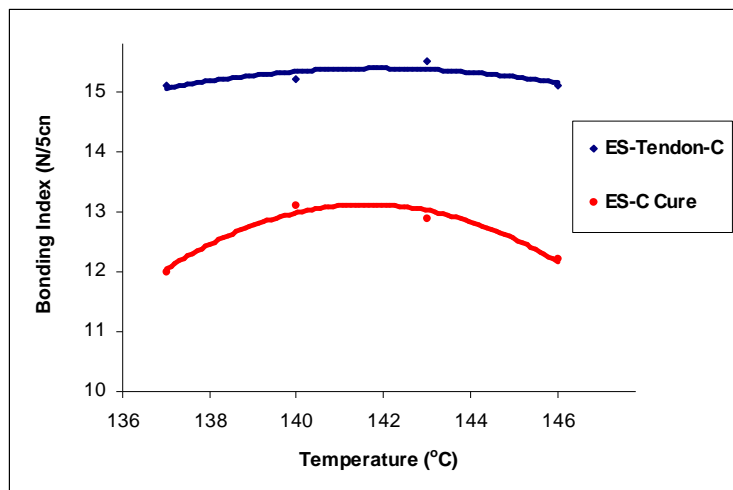
\*: Nonwoven properties are based on a 20 g/m<sup>2</sup> calender-bonded fabric produced at *FiberVisions Pilot Nonwoven line*.

*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, be certain all applicable regulations are met.*

*For further information contact your ES FIBERVISIONS representative.*

*Tendon: A fibrous, strong connective tissue that connects muscle to bone. ES binder fibers have exactly the same function in a nonwoven construction.*

### Calender-bonded Nonwovens: Bonding Index



\* : (Internal FV Test Method) Typical values obtained at *FiberVisions pilot line*.

#### Further Information:

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