



ES-C Cure

The ES-C Cure fiber from ES FIBERVISIONS represents a new generation of bicomponent using the new polymers and stabilizer systems. This secures the customers competitive and up-to-date fibers.

The ES-C Cure fiber consists of two different polymers (PE in the sheath and PP in the core), which can be individually engineered to give the best solution in terms of bonding behavior, bulkiness, strength, elongation, and integrity of the textile fabric.

Today, bicomponent fibers are used in hygiene products due to their superior softness and their ability to act as bonding agent.

In technical textiles the fibers are generally used as binder fibers for binding different fibers and layers together to create sophisticated textile solutions made from the best possible blends of fibers.

Used in nonwoven products, the ES-C Cure fibers add the following properties to the fabric:

- Superior nonwoven softness
- A good balance between nonwoven tenacities and elongation
- A low bonding temperature, yet a broad bonding window, which eases the processability with other fiber types
- Lamination to other materials (e.g. films).

Fibers:

Dtex:	1.7 - 16.7 dtex
Tensile strength:	2.5-3.6 cN/dtex
Elongation:	100-160%
Fiber length:	40-60 mm
Crimp frequency:	75-100
Spin finish level:	0.2-0.4%

(Types of spin finish: hydrophilic, permanent hydrophilic, FDA approved hydrophilic, hydrophobic, botanicals)

Typical Properties

Nonwovens:

Ovenbonded NW:

Tenacity/MD:	40-50 N/5 cm
Tenacity/CD:	15-20 N/5 cm
Elongation/MD/CD:	20-40/45-65%

Calenderbonded NW:

Tenacity/MD:	25-35 N/5 cm
Tenacity/CD:	5.2-6.5 N/5 cm
Elongation/MD/CD:	20-30/70-100%

Nonwoven properties are based on a 20 g/m² air-through-bonded fabric produced at FiberVisions Pilot Nonwoven line

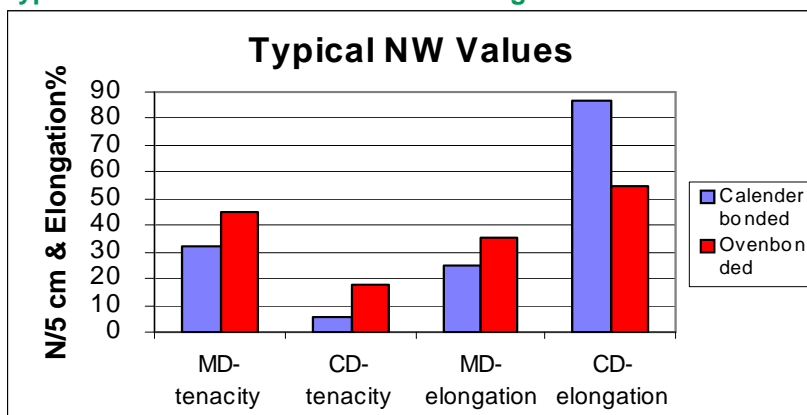
The ES-C Cure Fiber Features

The ES-C Cure fiber has the following characteristics:

- New material composition which secures a non-yellowing of fiber or nonwoven
- It can be carded and thermally bonded (calender, airtthrough or ultrasonic)
- It is available with the following spin finish types: hydrophilic, permanent hydrophilic, FDA approved hydrophilic and hydrophobic
- It is available in a range from 1.7 to 16.7 dtex
- The fiber can be tailor made to suit the customer's requirements with regard to crimp level, elongation and strength, shrinkage, and the ratio between PE and PP.

Polyolefin fibers consist of 99% carbon and hydrogen. The remaining 1% consist 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.

Typical Nonwovens Tenacities and Elongations



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

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