



ES-Delta II - simply bulkier!

ES FIBERVISIONS is constantly working to improve the performance of our fibers and to give our customers new advantages.

Now, a new generation of our bicomponent fiber is ready:

ES-Delta II

Characteristics

The fiber is developed for high loft nonwovens. The fiber design has the following advantages over its predecessors and competing bicomponent fibers:

- The fiber network after oven is rigid and strong and results in a larger void space per cm³. The space within the structure can provide air for insulation purposes, a reservoir for fluids, a large surface area, bulk for stabilization or filling as well as many other applications.
- The fiber has a higher temperature resistance, thereby lowering the thermal shrinkage of the fabric.
- The ES-Delta II combination of PE (sheath material) and PP (core material) makes it an ideal and environmental binder fiber avoiding the use of adhesives. It bonds to all synthetic and natural fibers.

ES-Delta is manufactured and marketed in a range of dtex in order to enable various applications. A large denier (dtex) fiber will increase the compression resistance or stiffness, whereas a low denier fiber will create a tighter network.

Fibers:		Typical Properties	
Dtex:	1.7 - 6.7 dtex	Ovenbonded NW:	
Tensile strength:	2.5-3.6 cN/dtex	Tenacity/MD:	35-45 N/5 cm
Elongation:	100-160%	Tenacity/CD:	12-17 N/5 cm
Fiber length:	40-60 mm	Elongation/MD/CD:	20-40/50-70%
Crimp frequency:	75-100	<i>Strike through, rewet, WRC, and run-off, % - values depend on the choice of spin finish.</i>	
Crimp contraction:	8-10%	<i>Nonwoven properties are based on a 20 g/m² air-through-bonded fabric produced at FiberVisions' pilot nonwoven line</i>	
Spin finish level:	0.2-0.4%		

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. In-house 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.

**ES-Delta II:
Thermal shrinkage:
4.3%**

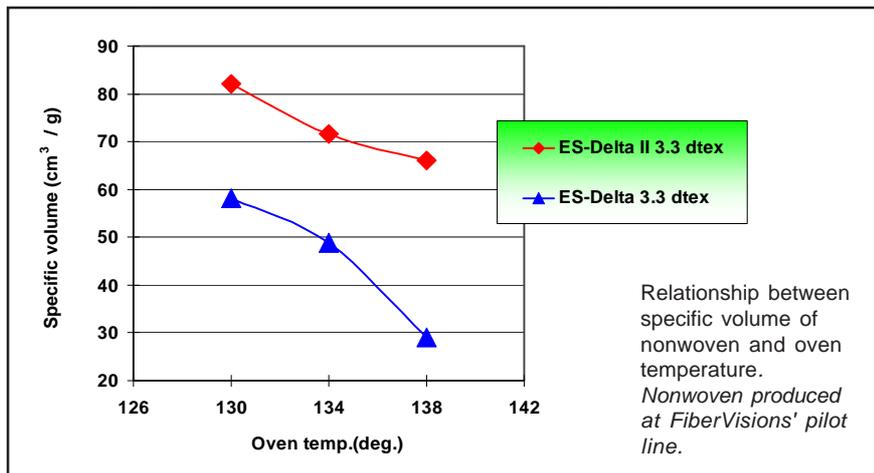
The ES-Delta II fiber has a low shrinkage tendency. The metal plate below the samples shows the original size (before thermal shrinkage treatment: 145°C for 5 minutes).



Applications

ES-Delta II fibers can be used with advantage in hygiene acquisition-distribution layers, filters, household products, medical products and other air-through (oven) bonded products.

Air-Through-bonded Nonwovens: Bulkiness Improvement



Further Information:

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