

ESC-UB - Spiral Bulky Fibers

ES FIBERVISIONS introduces ESC-UB fiber.

This fiber has a spiral-shaped crimp, and this unique crimp provides the fabric with higher bulkiness than any other fabrics made of synthetic fibers. This also means that the fabric made of the ESC-UB fiber has a very open high-ceilinged structure and shows extremely rapid liquid acquisition and distribution.

The development of the ESC-UB fiber was based on advanced technology and know-how of polymers, sophisticated processes, and process conditions. Normally, this type of fibers which has eccentric sheath-core configuration lacks thermal stability and tends to show high shrinkage. ESC-UB, however, has been thermally stabilized and shows a very low shrinkage. This also contributes to high bulkiness of

the fabric.

Furthermore, the ESC-UB fiber has high processability and enables customers to achieve the same bulkiness provided by other fibers but at reduced basis weight of the fabric.

This fiber will result in up to two times higher bulkiness than standard ESC fibers. The fabric also shows high resilience after long-term compression in roll condition or highly compressed packaging. These properties ensure products with high softness, high bulkiness, rapid liquid acquisition, low wetback and other valueadding properties.

This fiber is ideal for hygiene topsheet, acquisition and distribution layers (ADL) and any applications which require high bulkiness.

ESC-UB Fiber Properties (typical values)

Dtex:	2.2 - 20.0 dtex
Tensile Strength:	1.7 - 3.9 cN/dtex
Elongation:	40 - 100%
Fiber Length:	51, 64, 72 mm
Crimp Frequency:	30 - 60
Spin Finish:	0.3 - 0.5%
Melting Point:	
- of polyethylene sheath:	130°C
- of polypropylene core:	162°C

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.

Photo:
SEM
image of
spiral
crimp

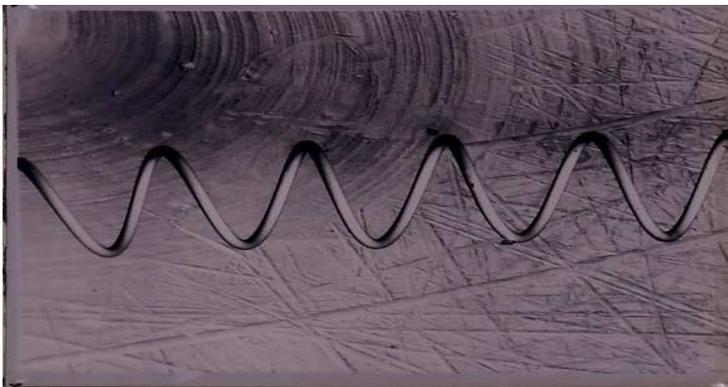
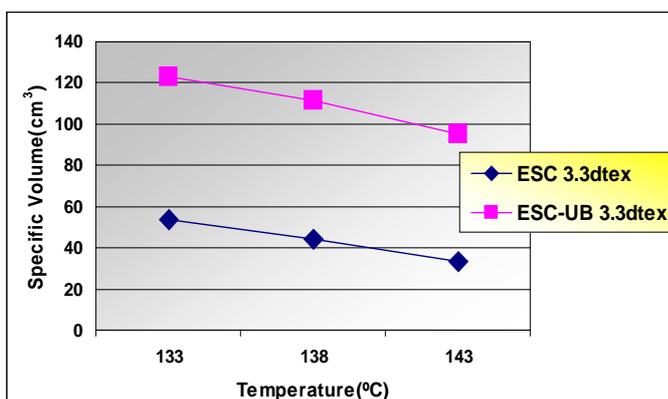


Figure:
Through-air
bonded
nonwovens:
Specific
volume

*(Internal
Chisso Test
Method)
Typical values
were obtained
at Chisso
Fiber Techni-
cal Center.*



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