

FiberVisions® HY-Entangle

Spunlacing Fiber

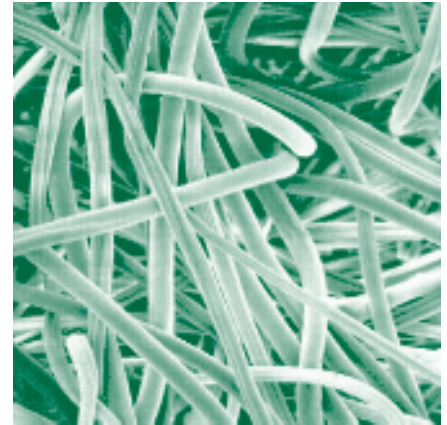
FiberVisions® HY-Entangle is a polypropylene fiber designed for the spunlace (or hydroentanglement) nonwoven technology.

The fiber contributes to the manufacture of a soft, high-strength and drapeable spunlace product for medical and household cleaning purposes, make up application, floor cloth, wipes and towellettes, and coating substrates.

Typically, the fiber will be used in blends with viscose/ rayon as the polypropylene fiber itself does not absorb liquids.

The fibers offer the following advantages during the process and to the end product:

- Good cardability and production economy
- Fine fibers with low bending modulus
- Fiber parameters adapted to the customer's product specifications
- Controlled watability
- Minimal foam building in the spunlace process
- Good bulkiness, strength and elongation of the product
- The HY-Entangle fibers allow embossing of the spunlace wipe material
- The HY-Entangle fiber has excellent biological and chemical resistance (both acids and alkalis and most organic chemicals)
- The HY-Entangle can be used in blends with viscose or other absorbent fibers in percentages from 80% and downwards.
- FiberVisions® HY-Entangle fiber has a number of advantages compared to polyester fibers.
 - A much lower density: 50% lower which means 50% more fibers per kilo of material.
 - Comparing 2.2 dtex fibers the HY-Entangle will have a 23% larger surface area than the polyester fiber
 - Comparing 15 micron fibers the HY-Entangle fiber will have a 50% larger surface area than a polyester fiber.
 - This difference in density can be utilized to create light weight spunlace materials or materials with high density (and maintaining fabric weight) or to save production costs.



FiberVisions® HY-Entangle fibers in blend with viscose fibers. The spunlace process for manufacturing nonwovens fabrics uses fine, high-speed jets of water to entangle the fibers into a fabric. The process produces fabrics of high quality with respect to softness, strength, bulk, drapeability and absorption.

Typical Properties*

Fibers:		Nonwovens:	
Dtex:	1.3-2.2 dtex	Tenacity/MD:	50-60 N/5 cm
Tensile strength:	2.3-3.5 cN/dtex	Tenacity/CD:	20 N/5 cm
Elongation:	100-300%	Elongation/MD/CD:	50-60/70-80%
Fiber length:	40-60 mm	Bulk, mm:	0.8 mm
Crimp frequency:	Variable	Absorption capacity, %:	550-+%
Shrinkage:	3 - 8%	(WPS 10.1)	
Spin finish level:	0.35%	<i>Properties are based on a 60 g/m² spunlace product made from a 50%/50% blend of Viscose and HY-Entangle on a commercial line.</i>	

**: Unless otherwise stated: Internal FiberVisions Test Methods. All measurements are conducted under standard atmosphere according to ISO 554 (23°C/50%).*

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 FiberVisions representative.