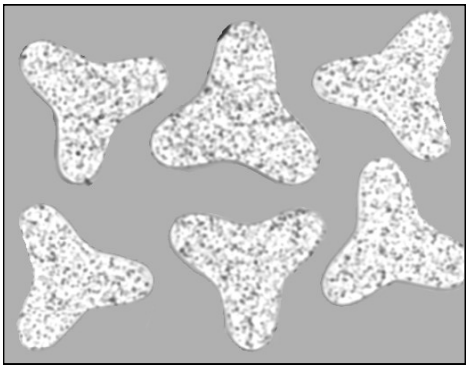
DATASHEET

FiberVisions® HY-Light-T PP fibers for TB NW

Part of FiberVisions Trilobal Fiber Platform

FiberVisions has developed cost effective trilobal staple fibers as a response to the continuous need to make fabrics more versatile without sacrificing strength and barrier properties.



FiberVisions trilobal staple fibers allow customers to make nonwoven fabrics with dramatically improved coverage and uniformity while maintaining equivalent fabric strength and softness. Additionally, these fibers can be supplied in both a standard and a high opacity version.
Furthermore, these trilobal fibers are optimized for dry laid nonwoven formation systems and are specifically designed to be converted into carded thermal bonded (CTB) fabrics.

What can PP trilobal fibers add to your product?

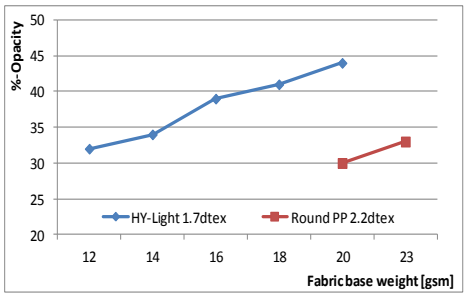
FiberVisions trilobal fibers are made from polypropylene using a new technology and have a number of remarkable characteristics:

◊ Developed for dry laid CTB formation systems
◊ Improved coverage even in lightweight fabrics
◊ Engineered to provide high nonwoven tensile strength
◊ Improved loft and hand feel
◊ Basic PP fiber qualities:
- low density (0.91 g/cm³)
- resistance to alkalis, acids, and most organic chemicals
- very low moisture absorption.

Fiber titer, cut length, crimp and lubrication are tailored to the needs of the application and of the customer to assure excellent processability and product quality.

Higher Opacity

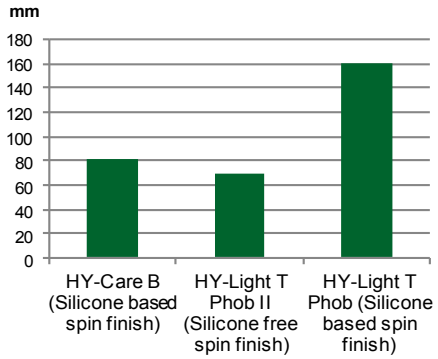
The significance of the trilobal fibers is evident when comparing the opacity of CTB fabrics (12-23 g/m^2) produced from these fibers.



The increased surface area of the fibers results in higher light scattering and therefore, higher opacity.

HY-Light-T Phob: Rising Water Column

The below nonwoven repellency values (internal FiberVisions test method) are obtained for CTB fabrics made of hydrophobic versions of HY-Light-T, silicone and non-silicone based spin finishes versus round 2.2 dtex with silicone based hydrophobic spin finish (HY-Care B).



Rising Water Column for a 23 gsm CTB fabric

FiberVisions® HY-Light-T - commercially available in:

◊ 1.9 - 6.7 dtex
◊ Hydrophillic (**HY-Light-T Phil**)
◊ Hydrophobic (**HY-Light-T Phob**)

Performance profile of polypropylene fibers

FiberVisions fibers have a number of advantages over other man-made fiber types:

Density. The density of polypropylene is 50% lower than polyester and 60% lower than viscose fibers. This means that lightweight fabrics can be made with excellent bulk and cover from lower denier yarns than from other fiber types.

Comfortable. Polypropylene is a very comfortable and soft fiber. It enable nonwovens with high extensibility, good drapeability and it has excellent resistance to static build-up.

Insulation. Polypropylene has the lowest conductivity of all textile fibers, and it absorbs no moisture.

Resistance. Polypropylene is inert to acids, alkalis and other chemicals. It is resistant to rot, mildew and bacteria. Polypropylene fiber is highly resistant to abrasion and has a toughness superior to most fibers.

Technical Service. FiberVisions believes in offering extensive technical service to its customers. This includes fiber innovation programs, exclusive fiber development, color matching, and fiber quality enhancements.

Request a trial for your next application!

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FiberVisions® HY-Light-T for TB nonwovens

Typical Fiber Properties

		FiberVisions® HY-Light-T			
Titer	dtex	1.9	2.2	3.3	6.7
Tenacity	cN/dtex	2.2-3,2	1.8-2.8	1.8-2.8	1.5-2.5
Elongation	%	150-250	200-300	250-350	350-450
Fiber length	mm	40-60	40-60	40-60	40-60
Melting point Softening point	°C	162°C 140-150°C	162°C 140-150°C	162°C 140-150°C	162°C 140-150°C
Crimp frequency	n/100mm	Adjustable (65-85)			
Spin finish level	%	Adjustable (0.25-0.65%)			

All measurements are conducted under standard atmosphere according to ISO 554 (23°C/50%) with use of FiberVisions Internal test methods.

Polyolefin fibers consist of 99% carbon and hydrogen and if added, TiO2 . 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, ensure that all applicable regulations are met.

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