

DATASHEET

Technical Fibers

Create WL - New Wetlaid Fiber

Polypropylene Short-cut Fibers for Wetlaid Nonwovens and Paper Products

FiberVisions® Create WL has been developed to ensure the best possible dispersion in wetlaid nonwoven systems and paper production.

The fiber has been developed and optimised with respect to fiber diameter and cut length, stiffness, cut quality and fiber surface characteristics.

The new fiber has the following advantages:

- Excellent dispersability in water and interaction with cellulosic fibers.
- Thermal bonding is made easy, because of a broad bonding window, which ensures production flexibility and processability.
- The fiber is capable of adding strength, softness, and elasticity to the nonwoven and paper product, and allows weight reductions.
- The fiber is available in a range of dtex from 1.7 dtex to 6.7 dtex.
- The fiber can be delivered in 5, 6, 8, 12, 15 and 18 mm.



What Can PP-fibers Add to Your Product?

FiberVisions® Create WL fibers are made from polypropylene (PP), which has a number of remarkable characteristics:

- Low melting point makes the fibers useful for bonding the web.
- The fibers are structural and reinforcing elements in a heatsealing or a calender bonding process, and give integrity and (wet) strength to the product.
- Low density (0.91 g/cm³), allowing the production of lightweight products with the same coverage as products made from other “heavier” fibers.
- Lowest moisture absorption of all fibers.
- FiberVisions PP-fibers are highly resistant to both acids and alkalis and to most organic chemicals.

Typical Wetlaid Product Data

During the development process FiberVisions has tested the fiber on pilot lines as well as commercial lines to ensure that every aspect of the fiber's influence on the process has been evaluated.

A wetlaid nonwoven product with a basis weight of 20 g/m² and a 25% content of FiberVisions Create WL fibers (6 mm fiber length) has the following strength properties:

- MD Strength 30-40 N/5 cm
- CD Strength 12-20 N/5 cm
- MD Wet Strength 10-20 N/5 cm

The product is produced in a commercial wetlaying, bonding and calendering process.

Fiber Properties



FiberVisions® Create WL has been thoroughly tested. Laboratory tests (human patch test) showed no indication of dermal irritation or sensitization.

The spin finish complies with FDA for indirect food contact applications.

Other typical properties (typical values):

Material:	Polypropylene (-CH(CH ₃)-CH ₂ -) _n
Density	0.91 g/cm ³
dtex:	1.7, 2.4, 3.3, 6.7 dtex (Int. FV test)
Fiber diameter	15-30 micron
Tensile strength:	1.8-3.0 cN/dtex (Int. FV test)
Elongation:	250-370% (Int. FV test)
Fiber length:	5, 6, 12, 15, 18 mm (Int. FV test)
Crimp frequency:	Can be delivered slightly crimped or uncrimped
Thermal behavior:	
- Softening point:	140-150 °C
- Melting point:	162 °C
Spin finish level:	0.2-0.4% (Int. FV test)

The FiberVisions® Create WL fiber is presently produced at the FiberVisions a/s plant in Denmark. Create WL is the trademark of FiberVisions.