

Facts about Fibertex

Fibertex Nonwovens is a market-leading manufacturer of nonwovens for industrial and technical applications.

With corporate office in Aalborg, Denmark, and manufacturing sites in Denmark, the Czech Republic and South Africa, Fibertex is globally represented. Since its foundation in 1968, Fibertex has continuously expanded and today manufactures nonwovens for customers all over the world for many different applications.

Focus on high quality and competitiveness

Fibertex is a pioneer with more than 40 years of experience in nonwovens technologies. Innovation and product development are two of Fibertex' strengths. We constantly strive to design the best and most competitive materials also for the mattress industry.

Successful solutions through partnership

As an expert Fibertex offers partnership and professional advise. The global input from our customers in the bedding industry makes Fibertex the optimal partner when it comes to developing products and services.



Making the perfect match

Spunbond

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Needlepunch

Needlepunch

versus

Spunbond



1
Noise reduction

Silent
Very silent fabric for noise-free products

Moderate noise
Noise-reducing fabric, not silent



Carded, mechanically entangled and thermally bonded



Needlepunch for strength and durability

Needlepunched nonwovens are high-strength textile-like fabrics made of staple fibres. They are designed to last and provide the mattress with long-term comfort and durability. The noise-free textile-like surface and the high-strength characteristics have made the needlepunched nonwovens a successful component for pocket springs and mattresses for more than 25 years.

Needlepunched nonwovens are carded and mechanically entangled (needlepunched), so that every single fibre is first bonded into the web and then thermally bonded. This ensures high abrasion resistance and eliminates any risk of delamination. The result is an extraordinary strong and tough fabric with extreme antipilling characteristics.

Different weights, surfaces and blends of the fibres are selected according to customers' individual requirements for strength, abrasion resistance, durability and softness.

2
Durability

Long lifetime
Extended abrasion resistance

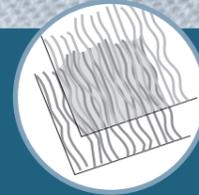
MARTINDALE TEST / **Needlepunch** 75 gsm

Reference 4300 rubs 11300 rubs

Moderate lifetime
Friction and abrasion sensitive

MARTINDALE TEST / **Spunbond** 75 gsm

Reference 3500 rubs 5200 rubs



Thermally bonded

The use of spunbonded nonwovens is an alternative to needlepunch in mattress manufacturing when long-term durability and noise reduction are not top priorities.

Spunbond is a nonwoven consisting of two or three individual layers of continuous filament made of the same polymer.

These layers are thermally bonded (calandered). This bonding gives the spunbonded nonwoven an even surface with a characteristic embossed pattern. Optimising the bonding and avoiding stiffness is one of the critical elements in spunbond manufacturing.

The result is a nonwoven fulfilling basic requirements for pocket springs and mattress construction.

3
Glue strength

Extreme contact
Doubled strength due to optimal contact with the three-dimensional fibre structure

Satisfactory contact
Satisfactory strength due to contact with surface layer only

4
Welding strength

Good strength
Long lasting endurance is ensured by using fibres with different melting points

Average strength
All filaments melt when welded due to only one type of polymers

5
Texture

Textile-like
Soft textile surface

Compact
Compact and less textile-like

