



UltraBond

The green way to bond

Flooring



There's so much more to gain
when bonding goes green

- Needlepunch carpets get sustainable
- Innovation in thermal bonding
- Improved total cost of ownership
- Fully recyclable



Fibres

UltraBond

The new UltraBond is a **patented** bonding staple polyolefin fibre that eliminates the need for latex or other chemical binders to bind nonwovens.

It opens up a new path to create 100% polypropylene (PP) needlepunch carpets which meet the same performance requirements as traditional latex-bonded carpets while reducing the end-of-life environmental impact and functional properties such as pilling resistance, resistance to wear abrasion, and also UV resistance are guaranteed.

100% recyclable carpets

Using UltraBond manufacturers finally gain the potential to cost-efficiently produce 100% recyclable carpets. In addition to the general benefits of making recycled PP available for the plastics production chain and reduced waste generation, environmental advantages and financial savings arise from a total lack of water and less energy use.

As a 100% dry process, thermal bonding uses no water and results in a total absence of waste water. There is also a reduction in the VOC level of the carpet. This all leads to a significant reduction in a needlepunch carpet's ecological footprint.

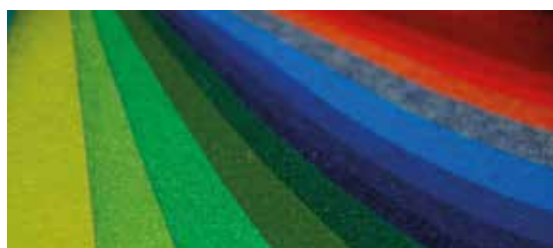
Master colour development, fully recyclable carpet

- Dimensional stability
- Strong abrasion and high resilience
- Stain resistance
- Fully recyclable carpet
- In-house master colour development
- Guaranteed colour fastness by UV resistance

The sustainability benefits are quantified through lifecycle analysis (LCA) of an exhibition carpet application - among the primary applications for needlepunch carpets.

Evaluations show that the absence of water consumption directly translates into a large energy saving of 93% when using UltraBond compared to a latex bonding solution, and also a potential annual water saving of over 20 million liters for 100 million m² of exhibition applications in the EU. Without the addition of any other bonding agent, CO₂ emissions are reduced by 35% over the full production process.

Specifications	UltraBond PP	Coarse UltraBond PP
Dtex	3,3 - 17	33 - 300
Tenacity (cN/tex)	≥ 30	
Elongation (%)	≥ 100	
Length (mm)	60 - 100	
Crimps (per cm)	2 - 6	0,5 - 2
UV resistant (Outdoor) ISO 105:B04	Up to 6.000 hrs	Up to 10.000 hrs
Activation Temperature	min. 140°C	



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