

Beaulieu
International
Group



Fibres

UltraBond

The green way to bond



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

- Needlepunched fabrics get sustainable
- Innovation in thermal bonding
- Improved total cost of ownership
- Fully recyclable



UltraBond

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

It opens up a path to create 100% polypropylene (PP) needlepunched fabrics which meet the same performance requirements as traditional constructions while reducing the end-of-life environmental impact.

Specifications	UltraBond	Coarse UltraBond
Dtex	3,3 - 17	33 - 300
Tenacity (cN/tex)	≥ 30	
Elongation (%)	≥ 100	
Cut length (mm)	45 - 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	>140°C	

Recyclable without compromise

Using **UltraBond**, manufacturers now have access to the most versatile bonding fibre available in the market. Ultrabond can be designed to go from a "one size fits all" concept to a customized bonding fibre for a single application maximizing the look and performance of the fabric.

In addition to the environmental benefits of being able to recycle a high performance fabric, financial savings arise from the greater rest value of the fabric at the end of life stage and lower energy and water consumption compared to chemically bonded fabrics.

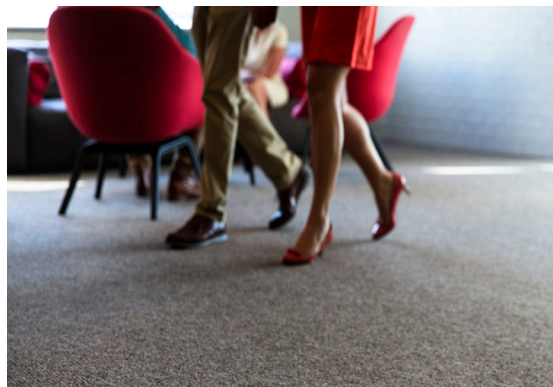
The sustainability benefits are quantified through lifecycle analysis of a needlepunched exhibition carpet. Evaluations show that the absence of water consumption directly translates into a large energy saving of 93% when using **UltraBond** compared to a latex bonding solution, and also a potential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

Specifications	Reference System	UltraBond System
Total weight (g/m ²)	300	260
PolyPropylene weight (g/m ²)	240	260
Bonding type	20 wt% SBR Latex	20 wt%
Energy	0%	up to -93%
Maintenance cost	0%	-40%
Consolidation equipment	Hot air Furnace (110°C)	Hot air Furnace (>140°C)

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Master colour development, fully recyclable fabrics

- Dimensional stability
- Strong abrasion resistance and high resilience
- Stain resistance
- Fully recyclable
- Flame retardance
- In-house master colour development
- UV resistance for outdoor use

