



Spunbond Bicomponent

One product, many solutions.

RadiciGroup runs a **spunbond sustainable production line provided with a bicomponent technology**, reducing energy consumption and widening the range of technical features. The possibility of **using different polymers** (at least two),

in the sheath and in the core, together with the **versatility of the technology**, allow RadiciGroup to approach new markets and to offer tailor-made solutions to customer requests concerning **performance and efficiency**.

Certifying processes

The company is certified according to ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 for the management of the quality, environmental, and safety processes.

Main properties



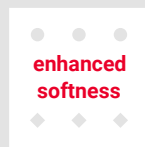
**gr/m²
10/150**

Basis weight from 10 to 150 gr/m² with good homogeneity



**100
colours**

Wide range of colours available (almost 100)



**enhanced
softness**

Standard sesamoid and 3D patterns to enhance softness, visual appearance and strength



**NO
delamination**

Monolayer nonwovens allow the material to be more compact



**easy
print**

High resolution print thanks to the compact structure and smooth surface of the nonwovens



**custom
solutions**

Combination of different raw materials and embossing patterns for tailor made products

Application sectors



Medical



Hygiene



Protective
apparel



Roofing and
Building
membranes



Automotive



Agriculture



Filtration



Ho.Re.Ca



Furniture

High technical properties



A-UV

Dylar® spunbond **A-UV** has a lifetime **5 times longer** than a standard spunbond (1000 hrs vs. 200 hrs of exposure, following the ISO 4892-3 norm).
The Dylar® spunbond **A-UV&TR** is **8 times stronger** than a standard spunbond.



Enhanced and tailor made mechanical properties

By means of its technological flexibility, Dylar® spunbond can be offered with tailor made mechanical properties. **High Tensile Strength Machine Direction (MD), High Tear Strength and Elongation control** (from 50 up to 200% at breakage) can be achieved by finely tuning up raw materials quality and relative contents and process conditions.



Flame retardant

It is intrinsically self extinguished. In the need of boosting the flame retardancy of a composite comprised of spunbond and other films or coatings, the Dylar® spunbond FR is the right companion for **achieving the ultimate flame retardancy levels required by the most common norms** like DIN 75200, EN ISO 11925 and FMVSS302 (ISO 3795). Dylar® spunbond FR is an HALOGEN FREE product.



Food Contact

It is comprised of raw materials and additives that are compliant with the Reach EC 1907/2006. **It is in compliance with the EU 10/2011 Regulation, dealing with plastic materials and articles intended to come into contact with food.** That is extremely important, for example, in case of using Dylar® spunbond for disposable tabletop.



Low voc & fog (svoc) emissions

It can be supplied in a special version where **the emissions of Volatile Organic Compounds**, up to C25, and the Semi Volatile Organic Compounds, from C14 to C32 (these last ones are responsible for fogging on the inside of vehicle window glass), **are below a certain threshold**, in compliance with the German norm VDA 278 (VDA is the German Association of the Automotive Industry).



Other treatments

Possibility to customize the final spunbond properties giving hydrophilicity, enhanced hydrophobicity, antiacarus or antibacterial properties. Enhanced softness available thanks to additive and specific calendering patterns.

Raw material wide combination



By a proper usage of different Polypropylenes and related CoPolymers it is possible to stretch mechanical properties out of the standard boundaries of monocomponent PP spunbond.



This is the ideal solution to obtain high elongation in the nonwoven: PE enhances softness and drapeability, while PP guarantees important technical properties such as resistance.



The right combination to reach high resiliency and resistance and to guarantee better thermal stability in extreme conditions.

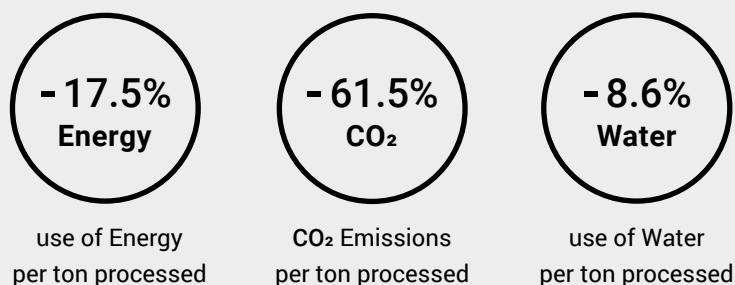
RadiciGroup. Inside your world.

RadiciGroup is one of the most active Italian chemicals manufacturers at an international level. RadiciGroup's diversified businesses operate worldwide and are focused on Specialty Chemicals, High Performance Polymers, Advanced Textile Solutions. Synergistic vertical integration, of polyamide production in particular, is one of RadiciGroup's strengths. Indeed, the Group has total control over its production chain, from chemical intermediates, such as adipic acid, to polyamide polymers, engineering polymers and synthetic fibres. RadiciGroup products are exported all over the world for use in the following sectors: apparel, sports, furnishings, automotive, electrical/electronics and household appliances.

Sustainability

Every day at RadiciGroup we work to make circularity our business model. We optimize the use of materials while fine-tuning our processes, eliminating waste, promoting recyclability from the earliest product design phases. We are always looking for low-impact solutions in terms of natural resources and energy. We rely on certified management systems for Safety, Environment and Energy to keep our companies in line with the highest sustainability standards.

Last 10 years' milestones:



Data Source: RadiciGroup Sustainability Reports



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