THE COMPANY

Tessiture Pietro Radici S.p.A. (TPR) is the ancestral company of today's RadiciGroup. Through its commitment and determination, the Group has become an international industrial enterprise that has progressively diversified into sectors such as chemicals, plastics, synthetic fibres, nonwovens and textile machinery.

Based in Bergamo (Italy), since the end of the 1980's **TPR** has produced the Dylar® line of spunbond fabrics which are specifically designed and developed for the needs of various application sectors: roofing and building, furniture, automotive, protective wear, coated and laminated membranes, agriculture, medical, hygiene, filtration, packaging and new technical applications in general.

Always committed to ensuring quality and product innovation together with a customer service beyond expectations, **TPR** pays the utmost attention to sustainability issues, health and safety at work and is certified ISO 9001, ISO 14001 and OHSAS 18001.

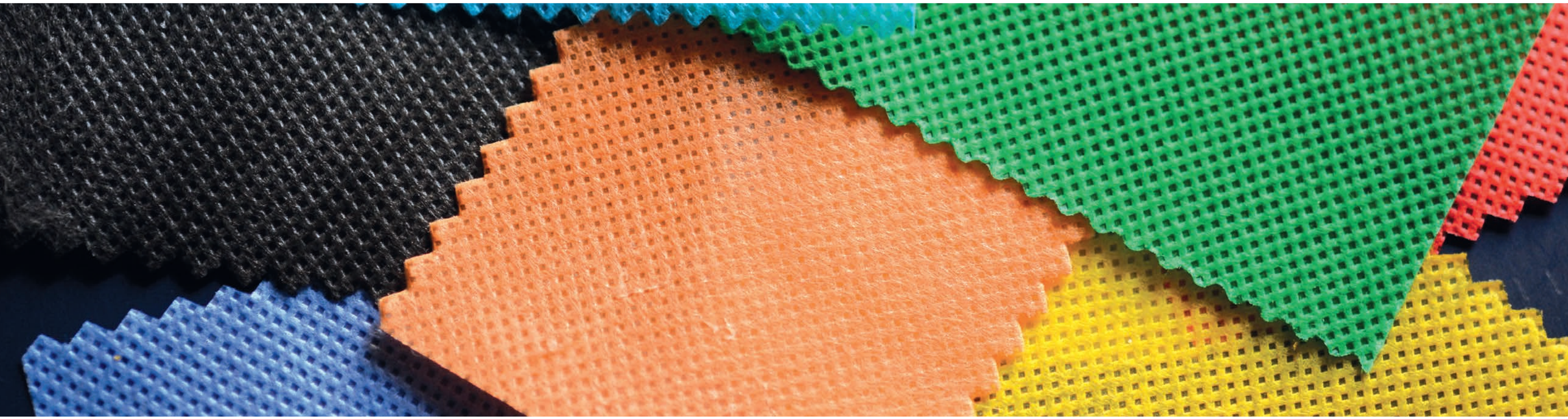
DYLAR® spunbond

DYLAR® spunbond is a nonwoven fabric that is comprised of filaments arranged in a random manner and thermally bonded using a calendering process. Polypropylene, in granule form, is extruded and made into thin filaments, forming a veil that is bonded by a calender with a smooth cylinder and an embossed one that determines the pattern of the nonwoven.
DYLAR® spunbond is available in weights from 12 to 150 gr/m² and in a wide range of colours and special technical properties.

Dylar/Dec2014

DYLAR

Dylar® Spunbond PP



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CERTIQUALITY
UNI EN ISO 9001:2008
UNI EN ISO 14001:2004
OHSAS 18001:2007

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RADICI GROUP

SPUNBOND SPECIALTIES

ROOFING
Dylar® Low Weight - UV performance
Dylar® Pesticides Resistant

ROOFING
Dylar® UV - Thermoresistant
Dylar® Electroshield
Dylar® Flame Retardant
Dylar® High Colour Fastness
Dylar® Antimosquitos & Mold

FURNITURE
Dylar® Antibacterial
Dylar® Antistatic
Dylar® Food approval (EU standard)

PROTECTIVE APPAREL
Dylar® Antistatic
Dylar® Tear resistant
Dylar® High Tech (Puncture resistant)

HYGIENE & MEDICAL
Dylar® Soft (PE)
Dylar® Super Absorbent

AUTOMOTIVE
Dylar® Thermoresistant
Dylar® Low VOC emissions

FILTRATION
Dylar® Low Elongation
Dylar® Air Permeability

HIGH TECHNICAL PROPERTIES

Tensile Strength is the maximum stress that a material can withstand while being stretched or pulled before failing or breaking.

Why is it an important plus?
DYLAR® spunbond enhanced properties improve the technical performance of the laminated sheets it is used to support.
Isotropy is uniformity in all orientations, both Cross Direction (CD) and Machine Direction (MD).

In standard spunbond PP nonwovens MD > CD
Why is it an important plus?
DYLAR® spunbond guarantees the same advanced performance both in cross and machine directions so it can be used in laminating and coating processes in any direction with no variation in the final technical properties of the sheet.

FLAME RETARDANT

Dylar® Flame Retardant PP spunbond can prevent fires from starting or limit the spread of fire and minimize fire damage.

DIN 75200 COMPLIANT
Determination of burning behaviour of interior materials in motor vehicles.

EN ISO 11925 COMPLIANT
Reaction to fire tests - Ignitability of building products subjected to direct impingement of flame.
CLASSIFICATION REQUIRED = E

FIRA International Ltd COMPLIANT
Furniture Industry Research Association Certification: Schedule 4 Part II & Schedule 5 Part III.

Why is it a plus?
DYLAR® PP spunbond FR properties contribute to improve the fire resistance of the end-use product it is used to support.

REACH COMPLIANCE
HALOGEN FREE PRODUCT
THERMAL AND ULTRASONIC BONDING SUITABLE

ANTISTATIC

Dylar® PP spunbond AS prevents or inhibits the buildup of static electricity. The terms **anti-static**, **conductive**, and **dissipative** are all terms that subdivide ElectroStatic Discharge (ESD) into more detail.

Materials are divided into these terms based on their individual surface resistance. Surface resistance is a measurement of how easily an electric charge can travel across a medium.

Conductive materials are materials that have a surface resistance of less than 1 x 10 5 ohms/square. Dissipative items have a surface resistance of more than 1 x 10 5 ohms/square but less than 1 x10 11 ohms/square.

Anti-static materials are generally referred to as any material which inhibits triboelectric charging.

This kind of charging is the buildup of an electric charge by the rubbing or contact with another material.

As requested by the different application sectors, **Dylar® PP spunbond AS** can either be:
- **Anti-Static** (Dylar® surface resistance 1 x 10^{12} ohms/square)
- **Dissipative** (Dylar® surface resistance 1 x 10^{6} ohms/square)

Why is it a plus?
Dylar® PP spunbond AS does not charge statically, so, for example, no sparks in case of rubbing and it does not attract dust.

A-UV

UV degradation occurs when nonwovens are exposed to the influence of sunlight, rain, temperature, and oxygen. This type of degradation is caused primarily by the UV content of sunlight, which initiates the photo-oxidation process.

Why is it an important plus?
DYLAR® PP spunbond doubles the lifetime of the end-use products exposed outdoor.

Standard: ISO 4892-3 COMPLIANT

LOW VOC/FOG EMISSIONS

What are Volatile Organic Compounds?
VOC are organic compounds containing one or more carbon atoms that have high vapour pressures and therefore evaporate readily to the atmosphere. Each carmaker must continuously strive to reduce VOC concentration in passenger compartments.
The European automotive industry tests emissions from car trim components. Their Method VDA 278 specifies direct desorption of materials, at elevated temperatures, to assess both VOCs and SVOCs (fogging) components.

VDA 278 COMPLIANT
Thermal Desorption Analysis of Organic missions for the Characterization of Non-Metallic Materials for Automobiles.

Why is it a plus? Dylar® Low VOC/FOG emissions contribute to reduce VOC concentration in car trim components.

HIGH TECHNICAL PROPERTIES

Food contact
Food contact approval is usually requested on napkins. As intended to come into indirect contact with food, **DYLAR® PP spunbond** products used for disposable tabletops are made with non-toxic raw materials and certified according to European Standards (EU Regulation n. 10/2011 of 14 January 2011).

Safety and Sustainability
DYLAR® PP spunbond is made with raw materials that do not contain heavy metals or, in general, bioaccumulative substances, in compliance with the European REACH EC 1907/2006 (European Community Regulation on Chemicals).

Colour fastness
DYLAR® PP spunbond coloured products do not fade and keep their bright colours longer than standard PP spunbond on the market.

Why is it a plus?
DYLAR® PP spunbond can be widely used indoor and outdoor to decorate tables with no risks of food contamination.