GREEN DYLAR®

Dylar® Spunbond for Agriculture

RADICI GROUP

www.radicigroup.com/dylar

CHALLENGES OF MODERN AGRICULTURE

Climate change, shrinkage in cultivated area, optimization of water and natural resources management.
Modern agriculture has very specific challenges and needs and is looking for solutions that can increase the yield of agricultural crops and reduce waste without compromising the quality of the products placed on the market.

DYLAR®GREEN Spunbond

DYLAR®GREEN Spunbond is used to make protective coverings for a variety of horticultural plants and crops. It is sold by farm product dealers specializing in farm and gardening supplies in the form of rolls or small pieces packaged in bags. Spunbond has characteristics that are highly appreciated in this sector:

Resistant, rot-proof and fray-resistant.

Allows the right amount of moisture, air and light to pass through, while protecting crops from wind and harsh weather.

Mitigates temperature excursion, thus facilitating germination.

Keeps the right moisture level and creates a temperate microclimate to protect crops from frost and freezing.

Lightweight and easy to lay over plants and crops.

DYLAR®GREEN Spunbond nonwoven can be used to extend the harvest of late crops (sometimes up to late winter) or to advance the harvest of the early crops of the new season, thus extending the growing and harvesting period.

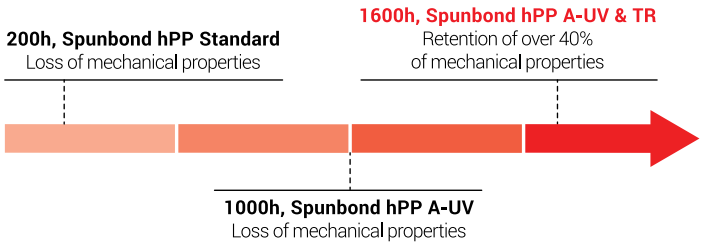
WHAT IS DYLAR®GREEN SPUNBOND?

DYLAR®GREEN Spunbond is a very versatile product and can be used in many applications. It is a nonwoven fabric comprised of filaments arranged in a random manner and thermally bonded using a calendering process. Polypropylene, in granule form, is extruded and spun into fine filaments to form a web that is passed through a calender and bonded by heated rollers. The calender has a smooth-faced roller and an embossed one, which creates a pattern on the nonwoven.

TECHNICAL CHARACTERISTICS

ANTI-UV

Weathering induced degradation can occur when non-wovens are exposed to sunlight (UV degradation), rain and temperature changes. The primary cause of degradation is the UV component of sunlight, which initiates the photo-oxidation process. **DYLAR®GREEN Spunbond UV** offers protection from solar radiation and doubles the life of protective covering.

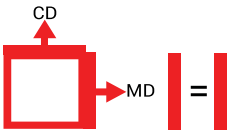


ELONGATION AT BREAK

DYLAR®GREEN Spunbond was designed to have high elongation, on top of excellent tenacity and tensile strength. These properties ensure flexibility and strength during the installation of the protective fabric.

ISOTROPY

Isotropy is uniformity in both cross direction (CD) and machine direction (MD).



DYLAR®GREEN Spunbond ensures equal strength in both cross and machine directions, thus facilitating the installation on land and providing improved wind resistance, no matter in which direction the fabric sheet is laid.

AIR PERMEABILITY

Air permeability is calculated in lab conditions by measuring the airflow speed through a product sample. **DYLAR®GREEN Spunbond** lets enough air flow through to deliver oxygen to the crops and is tear resistant against wind.

WELD STRENGTH

The weld lines are the weakest spot in protective fabric. **DYLAR®GREEN Spunbond** features better than average weld-strength characteristics compared to the products available on the market today.

PRODUCT RANGE

MOST POPULAR COLOURS

WHITE (protection) and BLACK (mulch)

WEIGHTS

17 g — Offers ideal protection for vegetables and flowers. By preventing the loss of heat and moisture during the most delicate phases of the growing process, it allows for improving and staggering the harvest of lettuce, carrots, potatoes, strawberries, melons, etc. Furthermore, it promotes fast and homogeneous plant rooting.

20 g
23 g
30 g — The ideal fabric for winter season protection of plants in vases or plants with woody stems. The greenhouse effect, together with a slight wind-breaking effect, ensures the thermal insulation of both aerial parts and roots of plants. Being lightweight, the nonwoven is easy to use and install.

50 g — For protection against rain, wind, large insects, birds and small animals in general.

INSTALLATION

Depending on the format, **DYLAR®GREEN Spunbond** can be placed by mechanical means (large areas) or manually (gardens and vegetable gardens). As a rule, the sheet is laid out in the direction of the wind, allowing for ample extra material widthwise to compensate for crop growth.

Furthermore, the edges of the fabric need to be secured to the ground with weights (e.g., sandbags) using extra care, so as not to damage the material, which can be picked up and reused during the following season, provided it is stored in a dry place and protected from sunlight.

COMPANY PROFILE

Tessiture Pietro Radici S.p.A. is the ancestral company of RadiciGroup, one of the most important chemical companies at the international level. RadiciGroup's business areas are Specialty Chemicals, Performance Plastics, Synthetic Fibres and Nonwovens.

Tessiture Pietro Radici S.p.A. (TPR) produces Dylar® spunbond nonwoven fabrics, which are researched and developed according to the specific needs of different application sectors.

TPR is strongly committed to product quality and innovation, as well as to providing attentive customer service. Sustainability, health and safety are the key words of the business activities of TPR, which is ISO 9001-, ISO 14001- and OHSAS 18001-certified.

39
Millions of Euro – 2017 sales revenue

1941
founding

1
production plant Gandino (Bergamo, Italy)

18,000
tons/year – production capacity

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

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