

Made by **DS Technical Nonwoven**, member of



PRESENTATION OF **HORTAFLEX®-Products**

Product Description :

Hortaflex® is a nonwoven 100% based on natural compostable fibres, namely polylactic acid or PLA. It is used for groundcovering purposes such as Weed-control.

Application method :

Hortaflex® is rolled out easy on the surface. The sides and the ends are fixed with U-profiles in the ground at regular distances. It is best to cover a 10cm wide sideslip of one roll next to the other. The PLA nonwoven cuts easy which facilitates the labour applying it. The soil must preferably be prepared and levelled before the pose.

System Characteristics of HORTAFLEX® 200 :

Thickness : According to the standard EN 964-1, thickness is 3mm +/-1mm

Weight : According to the standard EN 965, weight :200g/m² +/- 8%

Color : Brown, earth color.

Remark : The PLA fibres are dope-dyed. With our clients collaboration and in function of the volumes the color can be adapted to the natural environment.

Durability : In ambient conditions of 20°C and 75%RH, PLA is not defragmentated before 5 years.

Remark : see also compostability.

Characteristics : According to the standard EN ISO 10319 Tenacity (length) is 2,3kN/m +/- 0,5, Tenacity (width) 2,5 kN/m +/- 0,5. The elongation is 80% +/- 10%.

Water retention : According to the standard DIN 53923 the absorption capacity is 787% or 1,55l/m².

UV-Resistance : According to the standard ASTM G.53-84 (QUV instrument) after 1000h, no visual change.

Remark : the PLA polymer is very UV resistant, which substantially increases end-of life time.

Flame retardency : Thanks to a high LOI-value (limited oxygen index) 26+ (excellent) PLA has flame retardent characteristics.

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Ecological Characteristics :

Fossil energy use : Up to 80% less energy consumption is used compared with traditional plastics or nonwovens.

CO2 emissions: Up to 90% less greenhouse gasses in comparison with traditional plastics.

Remark : By 2011 production of the resin, the fibre and the nonwoven will be done with renewable energy sources. (windmills/ biomass)

Compostability : PLA is compostable in industrial composting installations. In these conditions, 60°C and 95% HR, Hortaflex® is composted in 45days.

Note : Hortaflex® avoids the use of herbicides and pesticides for several years. This is a contribution to protect our planet and green areas.

Physical Characteristics :

Roll length : 125 à 1000m

Roll width : 1,05 – 1,25 – 1,40 – 2,20 – 4,20 – 4,40 m

Maximum diameter : 1,40m

Remark : The length, the width and the diameter can be studied depending on the case.

Other Hortaflex® applications

Hortaflex® Plus : The nonwoven is seeded with grass. This system has the following advantages : soil reinforcement, grass protection (anti mole, anti-weed, etc..), much less labour because of large width possibility.

Hortaflex® Thermo : The nonwoven had a thermal treatment. This product is used for horticultural purposes. (strawberries, vegetables, etc...)

Hortaflex® 300 et 400 : The weight is increased for more severe applications.



Hortaflex is made with Ingeo fibres
(licenced by NatureworksPLA)

by DS Fibres, Belgium.