

## DANOFELT PY 500

500 g/m<sup>2</sup> Nonwoven Polyester Geotextile



BBA 14/5118 (1)



S-P-01897

DANOFET® PY is a non-woven geotextile formed by polyester threads, interwoven by needling, without the need or application of chemical binders. It has excellent mechanical and hydraulic behavior. Overall, nonwoven polyester geotextiles are an effective and versatile material for a wide range of civil engineering and construction applications, providing improved separation, filtration, and drainage applications.

### Presentation

- Length (cm): 7000
- Width (cm): 220
- Thickness (mm): 3.8
- Product code: 710037

### Technical Data

Concept	Value	Standard
Mass per unit area (nominal) (kg/m <sup>2</sup> )	500	-
In-plane water flow capacity (m <sup>2</sup> /s) 20 kPa	4.00 Exp-6, -0.1 Exp-7	UNE EN ISO 12958
Protection effectiveness (kN/m <sup>2</sup> )	19.0 Exp3 -0.3 Exp3	UNE-EN 13719
Elongation at break longitudinal (%)	120 ±30	UNE EN ISO 10319
Elongation at transverse break (%)	120 ±30	UNE EN ISO 10319
Thickness a 2kPa (mm)	3.80, ±0.20	-
Grammage (g/m <sup>2</sup> )	500 (+10%;-15%)	UNE EN ISO 9864
Opening size (µm)	60, ±20	UNE EN ISO 12956

Concept	Value	Standard
Dynamic drilling (cone drop) (mm)	0, +2	UNE EN ISO 13433
Water permeability (m/s)	0.02371, -0.005	UNE EN ISO 11058
Static punching (CBR) (kN)	1.8, -0.2	UNE EN ISO 12236
Longitudinal tensile strength (kN/m)	11.0, -1.0	UNE EN ISO 10319
Tranversal tensile strength (kN/m)	11.0, -1.0	UNE EN ISO 10319
Hazardous substances	PND	-

## Additional Technical Data

Concept	Value	Standard
Thickness at 200kPa (mm)	1.8, $\pm 0.20$	-
Thickness at 20kPa (mm)	3,0, $\pm 0,20$	UNE EN ISO 9863-1

## Standards and Certification

- Complies with CE marking requirements.

## Scope

- As a drainage layer, facilitating the evacuation of water.
- As a filter layer, preventing the passage of small particles and clogging of the system.
- As a protective layer for sheets from mechanical damage and piercing.
- As a separating layer, avoiding contact between layers of different nature, preventing their mixing and guaranteeing the maintenance of their initial performance.

## Advantages & Benefits

- Provides great mechanical protection.
- Increases the useful life of the elements it protects on site.
- High tensile strength.
- High resistance to piercing.
- Long life expectancy.
- It maintains the mechanical and hydraulic properties of the materials it separates intact.
- Allows for adaptation to any type of geometry.
- Resistant to soil active substances and inclement weather.

## Instruction for Use

### Preparation of the substrate:

- The surface of the base substrate must be resistant, uniform, compact and dry.
- The singular points must also be prepared before starting the laying of the geotextile: chamfers or chamfers in meetings with vertical walls, reinforcements, joints and other singular points.

### **Laying the geotextile**

- Once the ground or substrate has been levelled, the roll of DANOFELT PY is laid. The second roll is then laid, leaving a minimum overlap of 20cm. Depending on the final application, it is recommended to fix the joint by stitching or stapling.
- The materials should be poured without damaging the geotextile. In the same way, the spreading of the different layers should be carried out in such a way that the spreading and compacting equipment does not circulate at any time on the surface of the geotextile, and always in such a way that the direction of advance of the spreading machinery of the upper layer does not affect the overlapping of the geotextile layers.

### **Indications and Important Recommendations**

- When the geotextile has to be in contact with synthetic PVC waterproofing sheets, DANOFELT PY 300 or higher must be used.
- It is sensitive to UV rays, so it is necessary to cover as soon as possible (maximum sun exposure time 1 week).
- This product may form part of a waterproofing system, so all the documents referred to in the Danosa Solutions Manual must be taken into account, as well as all the regulations and legislation that must be complied with in this respect.
- The circulation of machinery and construction vehicles over the geotextile is strictly forbidden in order to avoid mechanical damage or folds in the geotextile, which would impede the correct functioning for which it has been designed.
- Do not expose to direct contact with fresh concrete.
- Store in a dry place.
- Special attention must be paid to the execution of the singular points, such as parapets (meetings with vertical and emergent elements), drains, expansion joints, etc.
- It is recommended to preserve the material in its packaging and protected from the weather until use.
- According to tests exposed in the achievement of the CE marking of this product, it has a minimum durability of 25 years, covered and installed in soils with a pH between 4 and 9 at a floor temperature <25°C.
- NOTE: For more information on the Danosa systems in which this product is used, please see the document "Waterproofing Solutions".

### **Warning**

- Do not expose to direct contact with fresh concrete.

### **Handling, storage and preservation**

- The product must be stored in a dry place protected from rain, sun, heat and low temperatures.
- The product must be stored horizontally.

## Notice

- The information contained in this document and any other advice provided, are given in good faith, based on DANOSA's current knowledge and experience when products are properly stored, handled and applied, in normal situations and in accordance with the recommendations of DANOSA. The information applies only to the application (s) and the product (s) to which reference is expressly made. In case of changes in the parameters of the application, or in case of a different application, consult the DANOSA Technical Service before using the DANOSA products. The information contained herein does not exonerate the responsibility of the building agents to test the products for the application and intended use, as well as their correct application in accordance with current legal regulations. The product images used in our communications are indicative and may differ slightly in color and aesthetic appearance in relation to the final product. Orders are accepted in accordance with the terms of our current General Sales Conditions. DANOSA reserves the right to modify, without prior notice, the data reflected in this documentation. Website: **www.danosa.com** E-mail: **info@danosa.com** Telephone: **+34 949 88 82 10**