

# DANOFELT PY I-300/I-500/I-700/I-900



Non-Woven Polyester Geo-Textile

## DESCRIPTION

**DANOFELT PY I-300/I-500/I-700/I-900** is non-woven mechanically bonded needle punched geo-textile of 300gsm, 500gsm, 700gsm and 900gsm, manufactured from high quality U.V stabilized polyester short fiber.

The advanced manufacturing process produces strong, flexible and dimensionally stable geo-textile fabric structure, with optimum pore sizes and high permeability.

It is resistant to chemicals and biological degradation normally found in soils and is stabilized against degradation due to shorter exposure to ultraviolet radiation.

## USES

- It is used as separating layer between two incompatible materials, avoiding their contact ensuring the maintenance of their initial performance.
- It is used as protection layer on waterproofing layer preventing the perforation and abrasion during subsequent works.
- It is used as separation, filtration, drainage, reinforcement, protection layer improving the mechanical and hydraulic behaviour in various civil engineering applications.

## ADVANTAGES

- Prevents attack of or adhesions between two different in-compatible materials.
- High resistance to puncture, chemical and biological elements existing in the soil.
- Easy to install and adaptable to complex geometrics.

## SUPPLY

**DANOFELT PY I-300/I-500/I-700/I-900** is supplied in roll size of 2.9m x 100m (w x l).

## STORAGE

**DANOFELT PY I-300/I-500/I-700/I-900** must be stored above 5°C. Store under the shed & protect from extremes of temperature, heat, and direct sunlight.

## SAFETY PRECAUTIONS

As with all chemical products, care should be taken during use and storage of **DANOFELT PY I-300/I-500/I-700/I-900**.

## PROPERTIES

Properties	Standard	Unit	DANOFELT PY I-300	DANOFELT PY I-500	DANOFELT PY I-700	DANOFELT PY I-900
<b>Mechanical properties</b>						
Tensile Strength	ASTM D 4595	KN/m	8	13	18	25
Elongation	ASTM D 4595	%	> 50	>50	>50	>50
Grab Tensile Strength	ASTM D 4632	N	480	750	950	1150
Grab Tensile Elongation	ASTM D 4632	%	> 55	>55	>55	>55
Trapezoidal Tear Strength	ASTM D 4533	N	200	320	430	570
Puncture Strength (CBR)	ASTM D 6241	N	1400	2300	3200	4300
Mass/Unit Area	ASTM D 5261	Gsm	300	500	700	900
Thickness	ASTM D 5199	mm	1.4	2.2	3.0	4.0
AOS	ASTM D 4751	microns	75	75	75	75
UV Resistance @ 150 hrs.	ASTM D 4355	% Strength Retained	>85	>85	>85	>85
Water Flow Rate @5cm head	ASTM D 4491	l/m <sup>2</sup> /sec	40	30	25	20

### VERSION: R5, 202112

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