

# DRANEX.PP.PET

Filter-reinforcement membrane for professional works



CC Technique Product Data Sheet

Edition: December 2015

Division: 7

Thermal & Protection

## ■ The Product

Filter-reinforcement membranes. DRANEX-PP is a woven polypropylene fabric filter-reinforcement membrane. DRANEX-PET is a non woven polyester fabric filter reinforcement membrane.

## ■ Uses

As reinforcement between gravel fill and compacted earth below in roads, railroads, etc... preserving the separation of layers even after considerable exposure to dynamic loads.

As filter – reinforcement membrane in underground drainage systems, canals, rivers, harbors, sea shores, basins, etc... As separation layer, puncturing protection, filter membrane between gravel and insulation board on inverted roof. Roofing works, reroofing, remedial roofing, maintenance, concrete decks, metal decks, etc. Landfills works.

## ■ Physical and Chemical Characteristics

DRANEX-PP is a precision manufactured (needle punch, non-woven) high modulus fibers polypropylene fabric.

DRANEX-PET is a precision manufactured (needle punch, non-woven) polyester fabric.

Colors:

DRANEX-PP and DRANEX-PET are white or green.

## ■ Instructions for use

Installation methods may vary depending on job requirements. The following are general installation procedures.

### **Preparatory Works:**

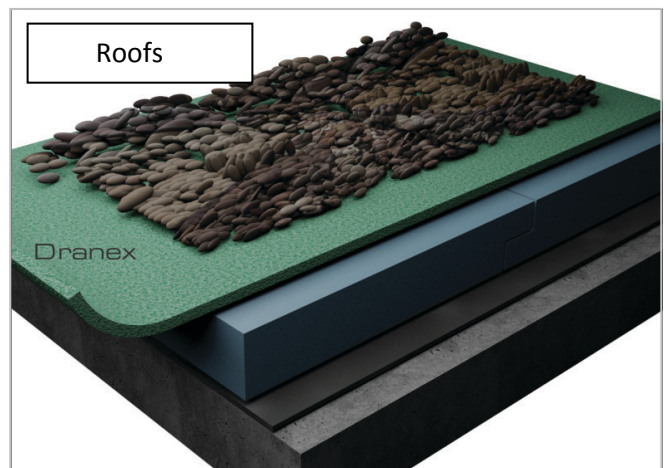
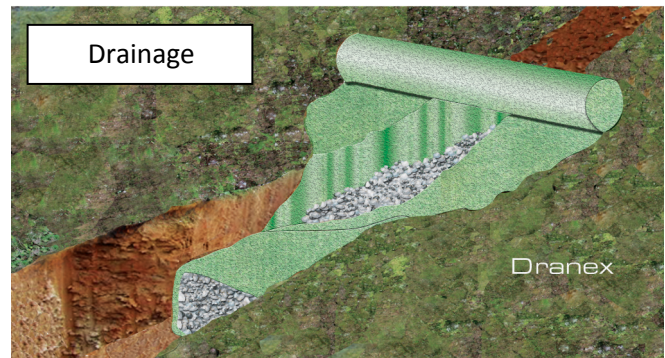
In each work, roads and railroad work, all excavation should be completed prior to the installation of DRANEX.

### **Alignment:**

Unroll and align dranex rolls. Overlaps should be minimum 4 inches (100mm) wide.

### **Joining:**

If requested stitch the two parts together with polyester filament.



### **Precautions:**

Once installation has been completed, avoid any unnecessary traffic on the membrane.

### **Guarantee:**

See general terms of sale below.

### **Technical services:**

For assistance in job design and planning please contact our local representative.

### **Filing systems:**

Section # 02200 Name: Earth Work Section # 02450

Name: Railroad work Section # 02770 Name: Ponds &

Table 1. DRANEX-PP and DRANEX-PET Aggressor Resistance;

Polymer type	Polypropylene	Polyester
Soil chemical resistance	Excellent	Excellent
Water resistance	Excellent	Excellent
Hydrocarbons & bitumen resistance	Excellent	Excellent
Bacteria resistance	Excellent	Excellent
Aging and weathering resistance	Excellent	Excellent



Table 2 DRANEX-PP series

Test	Specs	Unit	Dranex-pp			
Thickness	UNI EN 964/1	MM	1.3	1.8	2.7	3.6
Unit Weight	UNI EN 965	G/M	100	150	200	300
Tensile strength	UNI EN ISO 10319	N/5CM	500	650	1000	1350
Elongation at break	UNI EN ISO 10319	%	80	80	80	80
Water permeability	UNI EN ISO 11058	M/EX 10-3	5	4.5	4	3
CBR	UNI EN ISO 12236	N	1300	2200	3300	4500
Porometry 090	UNI EN ISO 12956	MICRONE	110	90	70	60



Table 3 DRANEX-Pet series

STS <u>NONWOVENS</u>	RAW MATERIAL	COLOR	WEIGHT	THICKNESS	TENSILE STRENGTH		ELONGATION		STATIC PUNCTURE	WATER FLOW RATE	
					MD	CMD	MD	CMD		TS EN ISO 11058	L / m <sup>2</sup> sn
			TS EN ISO 9864	TS EN ISO 9863	TS EN ISO 10319		TS EN ISO 10319		TS EN ISO 12236		
gr / m <sup>2</sup>	mm	kN/m		%		N	m / sn				
RWP 100	POLYESTER	BEYAZ	100	1.1	1.5	2	60 - 80	50 - 70	250	0.12	120
RWP 150	POLYESTER	BEYAZ	150	1.3	2.5	3	60 - 80	50 - 70	400	0.11	110
RWP 200	POLYESTER	BEYAZ	200	1.5	3	4	60 - 80	50 - 70	500	0.1	100
RWP 250	POLYESTER	BEYAZ	250	1.8	5	6	60 - 80	50 - 70	600	0.09	90
RWP 300	POLYESTER	BEYAZ	300	2.2	6	7	60 - 80	50 - 70	700	0.08	80
RWP 350	POLYESTER	BEYAZ	350	2.6			60 - 80	50 - 70	800	0.07	70
RWP 400	POLYESTER	BEYAZ	400	3	7	8	60 - 80	50 - 70	900	0.06	60
RWP 450	POLYESTER	BEYAZ	450	3.4			60 - 80	50 - 70	1000	0.05	50
RWP 500	POLYESTER	BEYAZ	500	4	8	10	60 - 80	50 - 70	1200	0.04	40