

TENAX TENDRAIN

Type: **1000/1**
Geocomposite



TENAX **TENDRAIN** geocomposites are a combination of TENAX geonets and nonwoven geotextiles*. The combination of geotextiles (filtering action) and geonet (drainage and protection) offers a complete system of "filter-drainage-protection".

TENAX **TENDRAIN** have an inner core composed of a high profile triangular shaped mesh structures made by three sets of overlaid intersecting strands. The inner strands, thicker and heavier, provide high compressive resistance and transmissivity.

Typical applications

Waste disposals; underground structures; retaining walls; gardens and sport fields; road foundations; ground channels.

PHYSICAL CHARACTERISTICS	TEST METHOD	UNIT	TENDRAIN 1000/1	NOTES
GEONET POLYMER			HDPE	
GEOTEXTILE POLYMER			PP	
U.V. STABILIZER			carbon black	

DIMENSIONAL CHARACTERISTICS	TEST METHOD	UNIT	TENDRAIN 1000/1	NOTES
THICKNESS at 20 kPa	ISO 9863	mm	6.0	d
THICKNESS at 200 kPa	ISO 9863	mm	5.5	d
ROLL WIDTH		m	3.80	a
ROLL LENGTH		m	50.0	a
ROLL DIAMETER		m	0.64	a
ROLL VOLUME		m ³	1.58	a
ROLL GROSS WEIGHT		kg	218.0	a

TECHNICAL CHARACTERISTICS	TEST METHOD	UNIT	TENDRAIN 1000/1	NOTES
HYDRAULIC FLOW RATE				
i=1 $\sigma_v = 20$ kPa	ISO 12958	m ² /s	2.00E-03	b,c,d
i=1 $\sigma_v = 100$ kPa	ISO 12958	m ² /s	1.90E-03	b,c,d
i=1 $\sigma_v = 200$ kPa	ISO 12958	m ² /s	1.70E-03	b,c,d
i=1 $\sigma_v = 500$ kPa	ISO 12958	m ² /s	1.40E-03	b,c,d
TENSILE STRENGTH	ISO 10319	kN/m	17.0	a,b
ELONGATION AT PEAK	ISO 10319	%	60	a,b

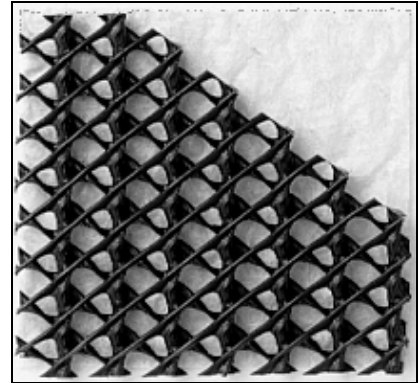
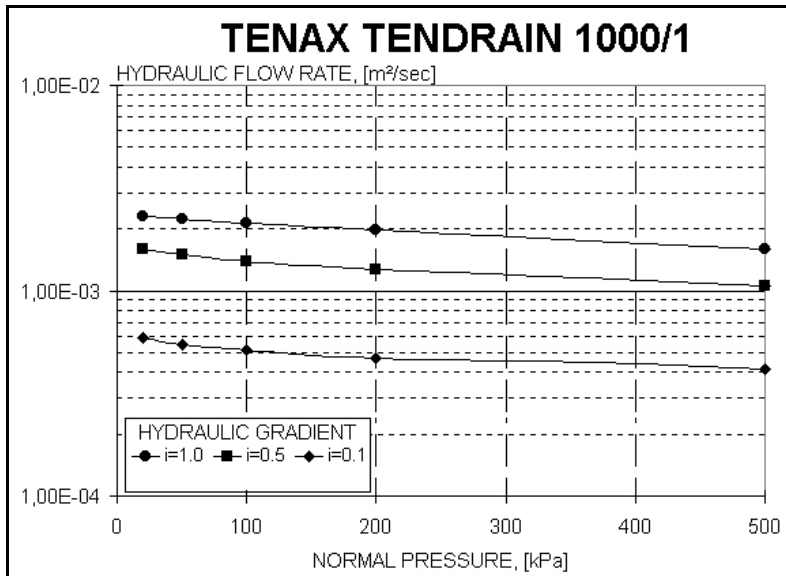
GEOTEXTILE CHARACTERISTICS	TEST METHOD	UNIT	TENDRAIN 1000/1	NOTES
MASS PER UNIT WEIGHT	ISO 9864	g/m ²	140	a
OPENING SIZE	ISO 12956	mm	0.08	a

NOTES:

- a) Typical values
- b) Longitudinal direction
- c) 2mm HDPE liner boundary condition
- d) Tolerance: -10%
- (*) Properties may vary upon specific geotextiles used



Typical Hydraulic Characteristics



0799-CPR-25



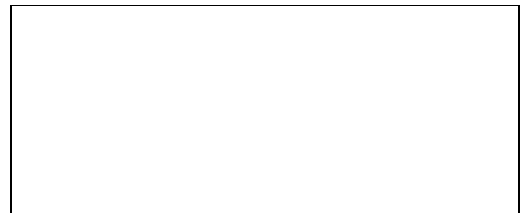
The TENAX Laboratory has been operational since 1980 and has been continuously improved with the purpose of assuring unequalled technical development of the products and accurate Quality Control.

The TENAX Laboratory can perform mechanical, hydraulic and durability tests, according to the most important international standards like ISO, CEN, ASTM, DIN, BSI, UNI.

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