

TENAX TDP

Type: **700/140/2**
1000/140/2
1250/140/2

Geocomposite



The TENAX **TDP** geocomposites are a combination of drainage cusped geonet and two geotextiles*. The combination of geotextile (filtering action) and cusped geonet (drainage and protection) offers a complete system of “filter-drainage-protection”.

Typical applications

Waste disposals; underground structures; retaining walls; ground channels; road foundations; landfill capping.

PHYSICAL CHARACTERISTICS	TEST METHOD	UNIT	TDP 700/140/2	TDP 1000/140/2	TDP 1250/140/2	NOTES
GEONET POLYMER			HDPE	HDPE	HDPE	
GEOTEXTILE POLYMER			PP	PP	PP	
U.V. STABILIZER			carbon black	carbon black	carbon black	

DIMENSIONAL CHARACTERISTICS	TEST METHOD	UNIT	TDP 700/140/2	TDP 1000/140/2	TDP 1250/140/2	NOTES
THICKNESS at 20 kPa	ISO 9863	mm	7.0	7.5	12.0	a
UNIT WEIGHT	ISO 9864	g/m ²	980	1280	1530	a
ROLL WIDTH		m	2.10	2.10	2.0	a
ROLL LENGTH		m	40.0	40.0	25	a
ROLL DIAMETER		m	0.62	0.67	0.70	a
ROLL VOLUME		m ³	0.82	0.95	1.00	a
ROLL GROSS WEIGHT		kg	82.0	107.0	76.5	a

TECHNICAL CHARACTERISTICS	TEST METHOD	UNIT	TDP 700/140/2	TDP 1000/140/2	TDP 1250/140/2	NOTES
HYDRAULIC FLOW RATE						
i=1 $\sigma_v = 20$ kPa	ISO 12958	m ² /s	2.10E-03	2.20E-03	5.00E-03	a,b,c
i=1 $\sigma_v = 100$ kPa	ISO 12958	m ² /s	2.00E-03	2.10E-03	4.60E-03	a,b,c
i=1 $\sigma_v = 200$ kPa	ISO 12958	m ² /s	1.90E-03	2.00E-03	4.00E-03	a,b,c
i=1 $\sigma_v = 500$ kPa	ISO 12958	m ² /s	1.60E-03	1.70E-03	2.00E-03	a,b,c
TENSILE STRENGTH	ISO 10319	kN/m	18	19	20	a,b
ELONGATION AT PEAK	ISO 10319	%	50	50	50	a,b

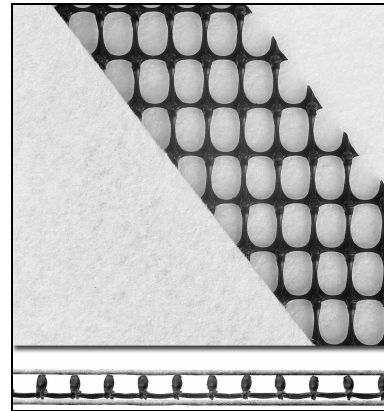
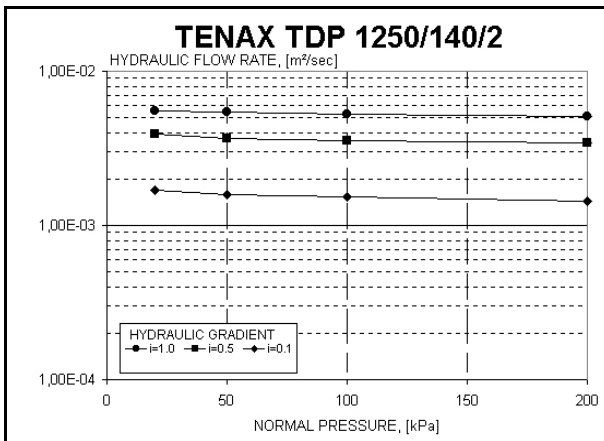
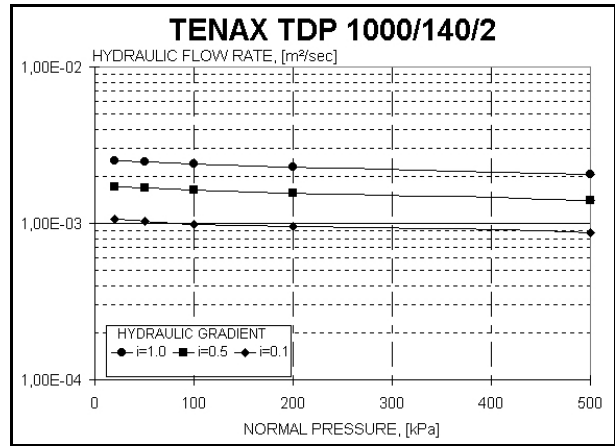
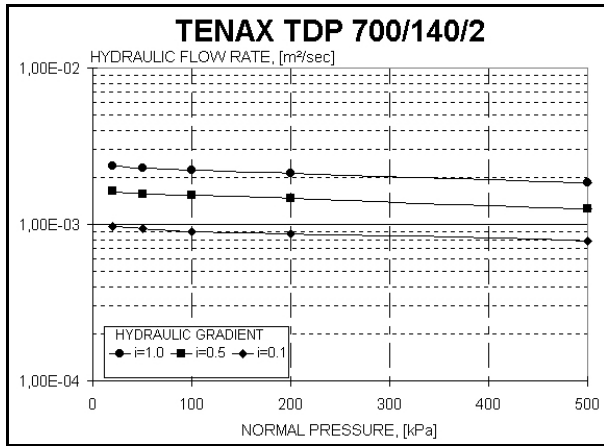
GEOTEXTILE CHARACTERISTICS	TEST METHOD	UNIT	TDP 700/140/2	TDP 1000/140/2	TDP 1250/140/2	NOTES
MASS PER UNIT WEIGHT	ISO 9864	g/m ²	140 - 140	140 - 140	140 - 140	a
OPENING SIZE	ISO 12956	mm	0.07	0.07	0.07	a

NOTES:

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



Typical Hydraulic Characteristics



The TENAX Laboratory has been created in 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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