

TENAX DL1

Composite



The TENAX **DL1** composite is a combination of drainage cusped net and geotextile. The combination of geotextile (filtering action) and cusped net (drainage and protection) offers a complete system of “filter - drainage - protection”.

Typical applications

Protection, filtration and drainage for: foundation and containment walls - roof gardens and walkable flat roofs.

PHYSICAL CHARACTERISTICS	TEST METHOD	UNIT	TENAX DL1	notes
GEONET POLYMER			HDPE	
GEOTEXTILE POLYMER			PP	
U.V. STABILIZER			Carbon black	

DIMENSIONAL CHARACTERISTICS	TEST METHOD	UNIT	TENAX DL1	notes
MASS PER UNIT AREA	ISO 9864	g/m ²	840	a
COMPOSITE THICKNESS	ISO 9863	mm	5.5	a
COMPOSITE THICKNESS AT 20 kPa	ISO 9863	mm	5.5	a
COMPOSITE THICKNESS AT 200 kPa	ISO 9863	mm	5.2	a
GEOTEXTILE NON-WOVEN EDGE		mm	150.0	a
ROLL WIDTH		m	2.10	a
ROLL LENGTH		m	20.0	a
ROLL DIAMETER		m	0.40	a
ROLL VOLUME		m ³	0.35	a
GROSS ROLL WEIGHT		kg	36.0	a

TECHNICAL CHARACTERISTICS	TEST METHOD	UNIT	TENAX DL1				notes
HYDRAULIC FLOW RATE		i =	1.00	0.03	0.02	0.01	
$\sigma_v = 10$ kPa	ISO 12958	m ² /s	2,42 E-03	3,30 E-04	2,70 E-04	1,42 E-04	a,b,c,d
$\sigma_v = 20$ kPa	ISO 12958	m ² /s	2,36 E-03	3,16 E-04	2,58 E-04	1,38 E-04	a,b,c,d
$\sigma_v = 50$ kPa	ISO 12958	m ² /s	2,25 E-03	2,88 E-04	2,35 E-04	1,34 E-04	a,b,c,d
$\sigma_v = 100$ kPa	ISO 12958	m ² /s	2,17 E-03	2,66 E-04	2,17 E-04	1,23 E-04	a,b,c,d
$\sigma_v = 200$ kPa	ISO 12958	m ² /s	2,04 E-03	2,50 E-04	2,04 E-04	1,16 E-04	a,b,c,d
TENSILE STRENGTH	ISO 10319	kg/m	1000				a,b
ELONGATION AT PEAK	ISO 10319	%	60				a,b

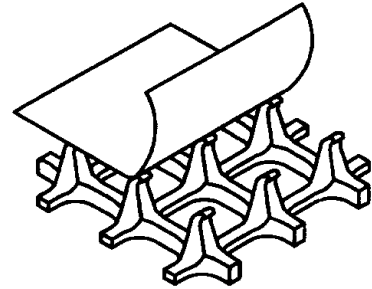
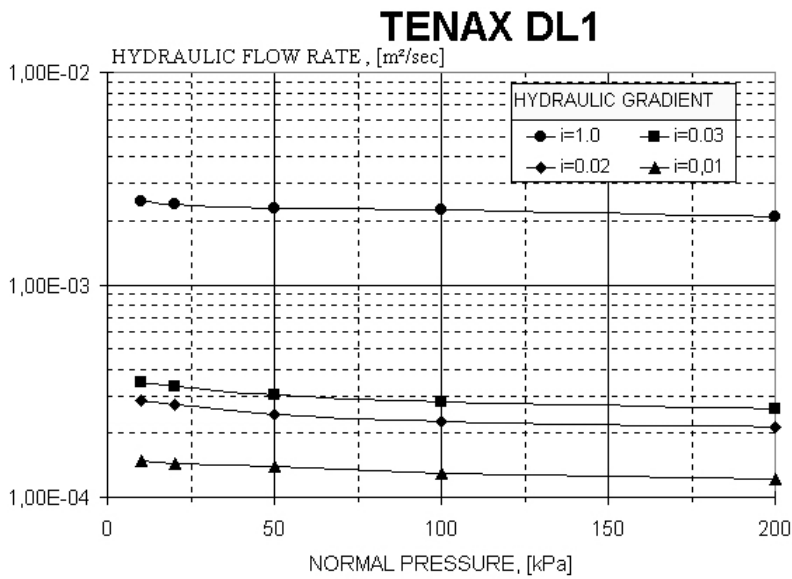
GEOTEXTILE CHARACTERISTICS	TEST METHOD	UNIT	TENAX DL1	notes
MASS PER UNIT AREA	ISO 9864	g/m ²	140	a
OPENING SIZE	ISO 12956	mm	0.07 - 013	a

NOTES:

- a) Typical values
- b) Longitudinal direction
- c) 2mm HDPE liner boundary condition
- d) $l(m^2/s) = 1.0 E-03 m^2/s$



Hydraulic Characteristics




TENAX DL1



0799-CPD-25



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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