

# TENAX DP1

## Composite

The TENAX **DP1** composite is a combination of drainage cusped membrane and geotextile.

The combination of geotextile (filtering action) and cusped membrane (drainage and protection) offers a complete system of "filter - drainage - protection".

## Typical application

Mechanical and antiroot protection, filtration and drainage for roof gardens, walkable and suitable for vehicles flat roofs; drainage foundations; sacrificial formworks; foundation and containment walls.

PHYSICAL CHARACTERISTICS	TEST METHOD	UNIT	TENAX DP1	notes
MEMBRANE POLYMER			HDPE	
GEOTEXTILE POLYMER			PP	
U.V. STABILIZER			Carbon black	

DIMENSIONAL CHARACTERISTICS	TEST METHOD	UNIT	TENAX DP1	notes
MASS PER UNIT AREA	ISO 9864	g/m <sup>2</sup>	1400	a
MEMBRANE THICKNESS	ISO 9863	mm	0.5	a
THICKNESS AT 20 kPa	ISO 9863	mm	8.0	a
RESIDUAL THICKNESS AT 200 kPa	ASTM D1621	%	> 85	a
MEMBRANE EDGE		mm	40.0	a
GEOTEXTILE NON-WOVEN EDGE		mm	100.0	a
ROLL WIDTH		m	1.50	a
ROLL LENGTH		m	20.0	a
ROLL DIAMETER		m	0.48	a
ROLL VOLUME		m <sup>3</sup>	0.37	a
GROSS ROLL WEIGHT		kg	43.0	a

TECHNICAL CHARACTERISTICS	TEST METHOD	UNIT	TENAX DP1				notes
HYDRAULIC FLOW RATE		i =	1.00	0.03	0.02	0.01	
$\sigma_v = 10$ kPa	ISO 12958	m <sup>2</sup> /s	4,15 E-03	5,83 E-04	4,77 E-04	2,75 E-04	a,b,c
$\sigma_v = 20$ kPa	ISO 12958	m <sup>2</sup> /s	4,10 E-03	5,77 E-04	4,71 E-04	2,72 E-04	a,b,c
$\sigma_v = 50$ kPa	ISO 12958	m <sup>2</sup> /s	4,04 E-03	5,63 E-04	4,60 E-04	2,65 E-04	a,b,c
$\sigma_v = 100$ kPa	ISO 12958	m <sup>2</sup> /s	3,97 E-03	5,48 E-04	4,47 E-04	2,58 E-04	a,b,c
$\sigma_v = 200$ kPa	ISO 12958	m <sup>2</sup> /s	3,85 E-03	5,41 E-04	4,42 E-04	2,55 E-04	a,b,c
TENSILE STRENGTH	ISO 10319	kg/m	2200				a,b
ELONGATION AT PEAK	ISO 10319	%	60				a,b

GEOTEXTILE CHARACTERISTICS	TEST METHOD	UNIT	TENAX DP1	notes
MASS PER UNIT AREA	ISO 9864	g/m <sup>2</sup>	200	a
OPENING SIZE	ISO 12956	mm	0.10	a

### NOTES:

- a) Typical values
- b) Longitudinal direction
- c) 2mm HDPE liner boundary condition



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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