TENAX **SD**

Type: **4-1**

Geocomposite

TENAX **SD** geocomposites are a combination of TENAX geonet and one nonwoven geotextile. The combination of geotextile (filtering action) and geonet (drainage and protection) offers a complete system of “filter-drainage-protection”.

Typical applications

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

PHYSICAL CHARACTERISTICS	TEST METHOD	UNIT	SD 4-1	NOTES
STRUCTURE			2 strands	
POLYMER TYPE			HDPE	
CARBON BLACK			YES	
FOAMING AGENT			NO	
GEOTEXTILE POLYMER			PP	

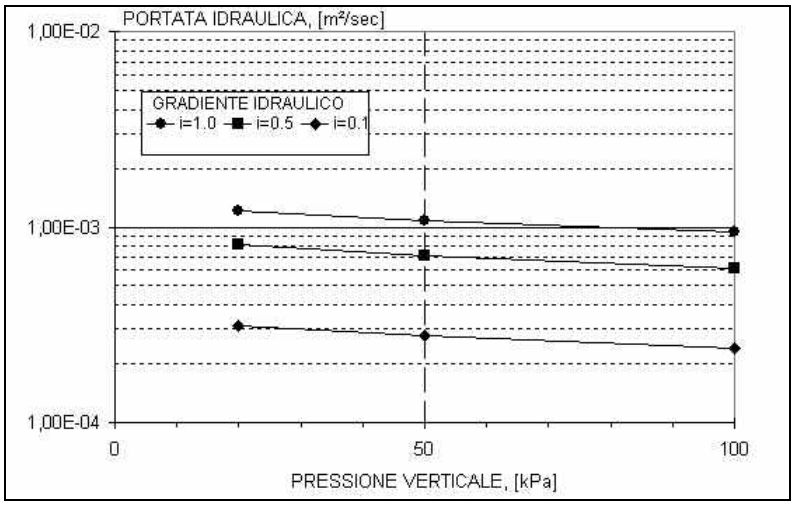
DIMENSIONAL CHARACTERISTICS	TEST METHOD	UNIT	SD 4-1	NOTES
THICKNESS at 20 kPa	ISO 9863	mm	4,5	d
ROLL WIDTH		m	3,85	a
ROLL LENGTH		m	50	a,e
ROLL DIAMETER		m	0,59	a
ROLL VOLUME		m^3	1,40	a
ROLL GROSS WEIGHT		kg	110	a

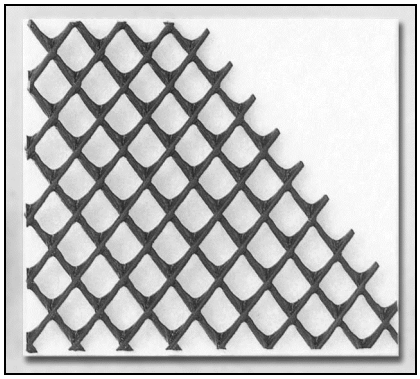
GEOTEXTILE CHARACTERISTICS	TEST METHOD	UNIT	SD 4-1	NOTES
MASS PER UNIT WEIGHT	ISO 9864	g/m^2	100	a
OPENING SIZE	ISO 12956	µm	90	a

TECHNICAL CHARACTERISTICS	TEST METHOD	UNIT	SD 4-1	NOTES
HYDRAULIC FLOW RATE			**i = 1.0**	
σv = 20 kPa	ISO 12958	m^2/s	1,10E-03	b,c,d
σv = 50 kPa	ISO 12958	m^2/s	9,75E-04	b,c,d
σv = 100 kPa	ISO 12958	m^2/s	9,25E-04	b,c,d
TENSILE STRENGTH	ISO 10319	kN/m	6,5	d,b
ELONGATION AT PEAK	ISO 10319	%	50	a,b

NOTES:
a) Typical values
b) Machine direction
c) 2mm HDPE liner boundary condition
d) Tolerance: -10 %
e) Other length on demand

Typical Hydraulic Characteristics





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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, TNN, ASTM, DIN, BSI, UNI.

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