

# TENAX TN

Type: **450**  
Geocomposite



TENAX **TN** geocomposites are a combination of TENAX geonets and nonwoven geotextiles. The combination of geotextiles (filtering action) and geonet (drainage and loads distribution) 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	TN 450	NOTES
STRUCTURE			2 strands	
POLYMER TYPE			HDPE	
CARBON BLACK			YES	
FOAMING AGENT			NO	
GEOTEXTILE POLYMER			PP	

DIMENSIONAL CHARACTERISTICS	TEST METHOD	UNIT	TN 450	NOTES	
THICKNESS at 20 kPa	ISO 9863	mm	4.5	4.5	a
UNIT WEIGHT	ISO 9864	g/m <sup>2</sup>	570	590	a
ROLL WIDTH		m	2.05	3.60	a
ROLL LENGTH		m	40.0	50.0	a
ROLL DIAMETER		m	0.50	0.56	a
ROLL VOLUME		m <sup>3</sup>	0.55	1.20	a
ROLL GROSS WEIGHT		kg	46.0	102.0	a

GEOTEXTILE CHARACTERISTICS	TEST METHOD	UNIT	TN 450	NOTES	
MASS PER UNIT WEIGHT	ISO 9864	g/m <sup>2</sup>	120	140	a
OPENING SIZE	ISO 12956	mm	0.08	0.07	a

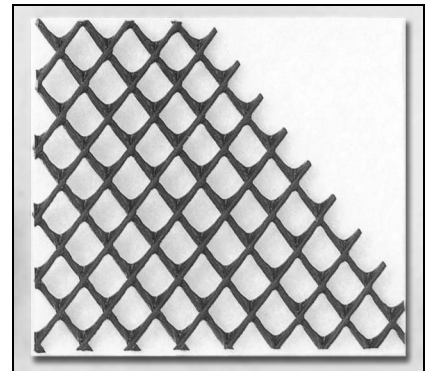
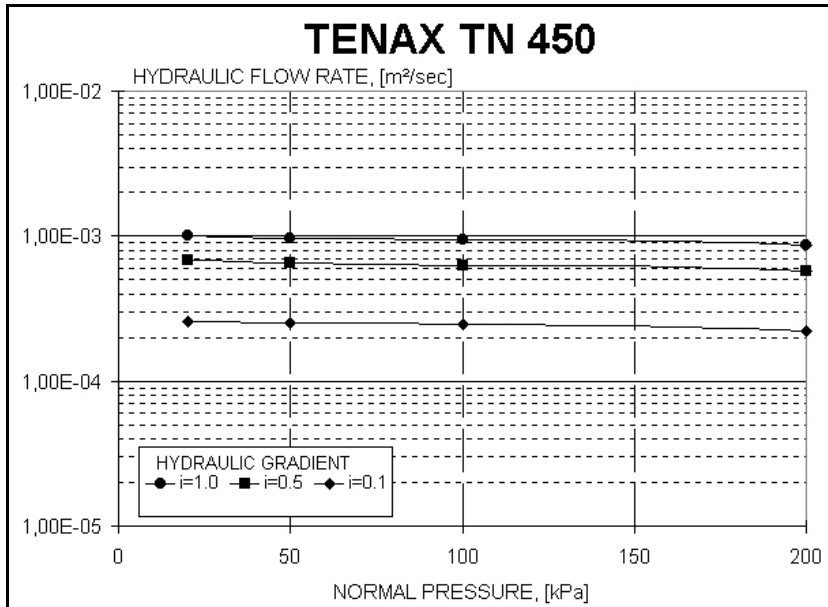
TECHNICAL CHARACTERISTICS	TEST METHOD	UNIT	TN 450	NOTES
HYDRAULIC FLOW RATE			<b>i = 1.0</b>	
$\sigma_v = 20$ kPa	ISO 12958	m <sup>2</sup> /s	1.00E-03	a,b,c
$\sigma_v = 100$ kPa	ISO 12958	m <sup>2</sup> /s	9,40E-04	a,b,c
$\sigma_v = 200$ kPa	ISO 12958	m <sup>2</sup> /s	8,70E-04	a,b,c
TENSILE STRENGTH	ISO 10319	kN/m	10.5	a,b
ELONGATION AT PEAK	ISO 10319	%	60.0	a,b

**NOTES:**

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



## Typical Hydraulic Characteristics



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, TNN, ASTM, DIN, BSI, UNI.

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**TENAX**