

# TENAX TT SAMP

Type: **090**

Mono-oriented Geogrids (Now available in the USA)

TENAX **TT 090 SAMP** are mono-oriented geogrids especially designed for soil reinforcement.

**TT 090 SAMP** geogrids are manufactured with a unique extrusion technology using high quality polymers.

TENAX **TT 090 SAMP** have high tensile modulus, great interlocking capacity, junction strength, as well as long-term design strength and durability.

## Typical applications

Steep slope reinforcement, land slide repair, retaining walls, embankment stabilization, landfill slope reinforcement

PHYSICAL CHARACTERISTICS	TEST METHOD	DATA		
STRUCTURE		MONO-ORIENTED GEOGRIDS		
MESH TYPE		OVAL APERTURES		
STANDARD COLOR		BLACK		
POLYMER TYPE		HDPE		
UV STABILIZER	ASTM D 4218	CARBON BLACK		
PACKAGING	ISO 10320	ROLLS IN POLYETHYLENE BAGS WITH I.D. LABEL		

  

DIMENSIONAL CHARACTERISTICS	TEST METHOD	UNIT	TT 090 SAMP	NOTES
MESH SIZE MD		in (mm)	8.66 (220)	b,d
MESH SIZE TD		in (mm)	0.51-0.79 (13-20)	b,d
ROLL WIDTH		ft (m)	3.28 (1.0)	b
ROLL LENGTH		ft (m)	164.0 (50)	b
ROLL DIAMETER		ft (m)	1.21 (0.37)	b
ROLL VOLUME		ft <sup>3</sup> (m <sup>3</sup> )	4.94 (0.14)	b

  

TECHNICAL CHARACTERISTICS	TEST METHOD	UNIT	TT 090 SAMP	NOTES
TENSILE STRENGTH AT 2% STRAIN	ASTM D 6637	lbs/ft (kN/m)	1782 (26.0)	a,c
TENSILE STRENGTH AT 5% STRAIN	ASTM D 6637	lbs/ft (kN/m)	3427 (50.0)	a,c
PEAK TENSILE STRENGTH	ASTM D 6637	lbs/ft (kN/m)	6168 (90.0)	a,c
YIELD POINT ELONGATION	ASTM D 6637	%	13.0	b,c
JUNCTION STRENGTH	GRI-GG2	lbs/ft (kN/m)	5483 (80.0)	b
LONG-TERM DESIGN STRENGTH	ISO 13431	lbs/ft (kN/m)	2906 (42.4)	e

## NOTES:

a) Average values, ASTM D 4759 b) Typical values c) Method A, Tests performed using extensometers at a strain rate of 20±3% per minute in gauge length at 20°C d) MD: machine direction (longitudinal to the roll) TD: transversal direction (across roll width) e) Design strength based upon 120 years design life at 20°C and fill soil up to 40mm size.



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, CEN, ASTM, DIN, BSI, UNI.



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