

TENAX TT SAMP

TYPE: 045 - 060 - 090 - 120 - 160 *(Not sold in the USA)*

TENAX TT SAMP are mono-oriented geogrids especially designed for soil reinforcement. TENAX TT SAMP geogrids are manufactured with a unique extrusion technology using high quality polymers. TENAX TT SAMP geogrids have high tensile modulus, great interlock capacity and junction strength, as well as superior long term design strength and durability.

TYPICAL APPLICATIONS

Retaining walls · Steep slopes reinforcement · Landslides repair · Embankments stabilization · Landfill slide slopes reinforcement

MATERIAL CHARACTERISTICS	TEST METHOD	DATA
structure		mono-oriented geogrids
mesh type		oval apertures
standard color		black
polymer type		HDPE
u.v. stabilizer		carbon black
packaging		rolls with identification label

DIMENSIONAL CHARACTERISTICS	TEST METHOD	UNIT	TT045 SAMP	TT060 SAMP	TT090 SAMP	TT120 SAMP	TT160 SAMP	NOTES
aperture size md		mm	220	220	220	220	220	b,d
aperture size td		mm	13/20	13/20	13/20	13/20	13/20	b,d
roll width		m	1.0	1.0	1.0	1.0	1.0	b
roll length		m	100.0	75.0	50.0	30.0	30.0	b
roll diameter		m	0.35	0.35	0.37	0.35	0.40	b
roll volume		m ³	0.13	0.12	0.14	0.12	0.16	b

TECHNICAL CHARACTERISTICS	TEST METHOD	UNIT	TT045 SAMP	TT060 SAMP	TT090 SAMP	TT120 SAMP	TT160 SAMP	NOTES
strength at 2% strain	ASTM D6637	kN/m	11.0	17.0	26.0	36.0	45.0	a,c
strength at 5% strain	ASTM D6637	kN/m	25.0	32.0	50.0	72.0	90.0	a,c
peak tensile strength	ASTM D6637	kN/m	45.0	60.0	90.0	120.0	160.0	a,c
yield point elongation	ASTM D6637	%	11.5	13.0	13.0	13.0	13.0	b,c
junction strength	GRI-GG2	kN/m	36.0	50.0	80.0	110.0	130.0	b
long-term design strength	ISO 13431	kN/m	21.2	28.3	42.4	56.5	75.4	e

- NOTES:
- a: Minimum average roll values determined in accordance with ASTM D4759
 - b: Typical values
 - c: Method A, tests performed using extensometers at 20°C
 - d: MD: machine direction (longitudinal to the roll)
TD: transverse direction (across roll width)
 - f: Design strength based upon 120 years design life at 20°C and fill soil up to 40mm size