

SINGLE LAYER BI-AXIAL GEOGRIDS

FEATURING TENAX LBO SAMP 440 (Not sold in the U.S.A)

TENAX LBO SAMP 440 are polypropylene geogrids especially designed for soil stabilization and reinforcement applications. LBO SAMP 440 geogrids are manufactured from a unique process of extrusion and biaxial orientation to enhance their tensile properties. TENAX LBO SAMP 440 geogrids feature consistently high tensile strength and modulus, excellent resistance to construction damages and environmental exposure. Furthermore, the geometry of TENAX LBO 440 SAMP geogrids allows strong mechanical interlock with the soil being reinforced.

TYPICAL APPLICATIONS

~ Soft soil stabilization ~ Base Reinforcement ~ Embankments over soft soils ~ Working platforms ~ Haul roads

MATERIAL CHARACTERISTICS	TEST METHOD	DATA			
polymer type		polypropylene			
carbon black content	ASTM D 4218	2.0%			
DIMENSIONAL CHARACTERISTICS	TEST METHOD	UNIT			NOTES
aperture size . MD/TD		mm/mm	35 /45		a,c
roll dimension		m x m	4.0 x 50		a
roll area		m ²	200		a
roll volume		m ³	0.75		a
TECHNICAL CHARACTERISTICS	TEST METHOD	UNIT			NOTES
Strengths & Load Capacity:			MD	TD	
peak tensile strength	ISO 10319	kN/m	40.0	40.0	b,c,d
tensile strength @ 2%strain	ISO 10319	kN/m	14.0	15.0	a,b,c
tensile strength @ 5%strain	ISO 10319	kN/m	28.0	30.0	a,b,c
tensile modulus @ 2%strain	ISO 10319	kN/m	700	750	a,b,c
tensile modulus @ 5%strain	ISO 10319	kN/m	560	600	a,b,c
yield point elongation	ISO 10319	%	11.0	11.0	a,b,c
Structural Integrity:					
torsional rigidity	US ARMY COE	kg-cm/deg	14.0		

NOTES: a: Typical values

b: Test performed using extensometers.

c: MD: machine direction (longitudinal to the roll), TD: transverse direction (across roll width).

d: 95% lower confidence limit values, ISO 2602.

Manufactured by Tenax Corporation, 4800 E. Monument Street, Baltimore, MD 21205; represented exclusively in the Americas by Syntec, LLC.