

# TENAX LBO SAMP

## Type: 440

Single Layer Bi-axial Geogrids *(Now available in the USA)*

TENAX **LBO 440 SAMP** are polypropylene geogrids especially designed for soil stabilization and reinforcement applications.

**LBO 440 SAMP** geogrids are manufactured from a unique process of extrusion and biaxial orientation to enhance their tensile properties.

TENAX **LBO 440 SAMP** 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

PHYSICAL CHARACTERISTICS	TEST METHOD	DATA
STRUCTURE		SINGLE LAYER BI-AXIAL GEOGRIDS
MESH TYPE		RECTANGULAR APERTURES
STANDARD COLOR		BLACK
POLYMER TYPE		POLYPROPYLENE
UV STABILIZER	ASTM D 4218	CARBON BLACK
PACKAGING	ISO 10320	ROLLS IN POLYETHYLENE BAGS WITH I.D. LABEL

DIMENSIONAL CHARACTERISTICS	TEST METHOD	UNIT	LBO 440 SAMP	NOTES
MESH SIZE MD		in (mm)	1.38 (35)	a,c
MESH SIZE TD		in (mm)	1.77 (45)	a,c
ROLL WIDTH		ft (m)	13.1 (4.0)	a
ROLL LENGTH		ft (m)	164 (50)	a
ROLL AREA		ft <sup>2</sup> (m <sup>2</sup> )	2152 (200)	a
ROLL VOLUME		ft <sup>3</sup> (m <sup>3</sup> )	26.49 (0.75)	a

TECHNICAL CHARACTERISTICS	TEST METHOD	UNIT	LBO 440 SAMP		NOTES
			MD	TD	
TENSILE STRENGTH AT 2% STRAIN	ISO 10319	lbs/ft (kN/m)	959.6 (14.0)	1028 (15.0)	a,b,c
TENSILE STRENGTH AT 5% STRAIN	ISO 10319	lbs/ft (kN/m)	1919 (28.0)	2056 (30.0)	a,b,c
TENSILE MODULUS AT 2% STRAIN	ISO 10319	lbs/ft (kN/m)	47978 (700)	51405 (750)	a,b,c
TENSILE MODULUS AT 5% STRAIN	ISO 10319	lbs/ft (kN/m)	38382 (560)	41124 (600)	a,b,c
PEAK TENSILE STRENGTH	ISO 10319	lbs/ft (kN/m)	2741 (40.0)	2741 (40.0)	b,c,d
YIELD POINT ELONGATION	ISO 10319	%	11.0	11.0	a,b,c
TORSIONAL RIGIDITY	US ARMY COE	kg-cm/deg	14.0		

### NOTES:

a) Typical values b) Tests performed using extensometers c) MD: machine direction (longitudinal to the roll) TD: transversal direction (across roll width) d) 95% lower confidence limit values, ISO 2602



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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