

TENAX LBO SAMP

Type: **220 - 330 - 440**

Bi-oriented geogrids



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

Typical applications

Base reinforcement; reduction of required structural fill; load distribution; reduction of mud pumping; subgrade stabilization; embankment stabilization; slope reinforcement; erosion control mattresses.

PHYSICAL CHARACTERISTICS	TEST METHOD	UNIT	DATA	NOTES
STRUCTURE			BI-ORIENTED GEOGRIDS	
MESH TYPE			RECTANGULAR APERTURES	
STANDARD COLOR			BLACK	
POLYMER TYPE			POLYPROPYLENE	
CARBON BLACK CONTENT	ASTM D1603		2.0%	
PACKAGING	ISO 10320		ROLLS IN POLYETHYLENE BAGS WITH I.D. LABEL	

DIMENSIONAL CHARACTERISTICS	TEST METHOD	UNIT	LBO 220 SAMP	LBO 330 SAMP	LBO 440 SAMP	NOTES
APERTURE SIZE MD		mm	41	40	34	b,d
APERTURE SIZE TD		mm	31	27	27	b,d
MASS PER UNIT AREA	ISO 9864	g/m ²	270	420	650	b
ROLL WIDTH		m	4.0	4.0	4.0	b
ROLL LENGTH		m	100	75	50	b
ROLL DIAMETER		m	0.41	0.48	0.52	b
ROLL VOLUME		m ³	0.69	0.94	1.10	b
GROSS ROLL WEIGHT		kg	115.5	134.0	137.0	b

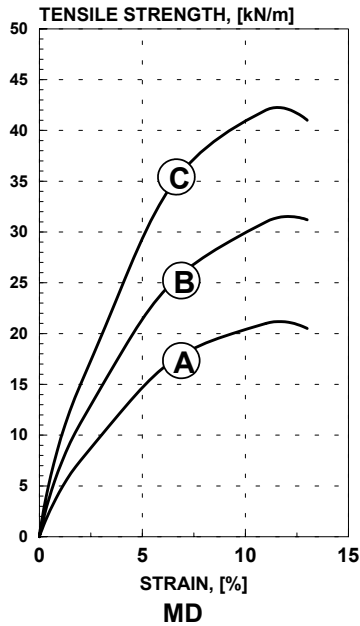
TECHNICAL CHARACTERISTICS	TEST METHOD	UNIT	LBO 220 SAMP		LBO 330 SAMP		LBO 440 SAMP		NOTES
			MD	TD	MD	TD	MD	TD	
STRENGTH AT 2% STRAIN	ISO 10319	kN/m	7.0	7.0	10.5	10.5	14.0	15.0	b,c,d
STRENGTH AT 5% STRAIN	ISO 10319	kN/m	14.0	14.0	21.0	21.0	28.0	30.0	b,c,d
PEAK TENSILE STRENGTH	ISO 10319	kN/m	20.0	20.0	30.0	30.0	40.0	40.0	a,c,d
YIELD POINT ELONGATION	ISO 10319	%	11.0	10.0	11.0	10.0	11.0	11.0	b,c,d

NOTES:

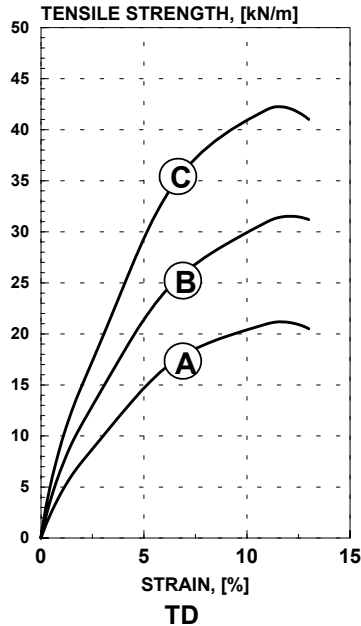
- a) 95% lower confidence limit values, ISO 2602
- b) Typical values
- c) Tests performed using extensometers
- d) MD: machine direction (longitudinal to the roll)
TD: transverse direction (across roll width)

Typical Tensile Characteristics

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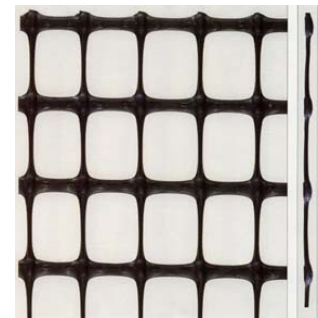


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GEOGRID TYPE:

- A = TENAX **LBO 220 SAMP**
- B = TENAX **LBO 330 SAMP**
- C = TENAX **LBO 440 SAMP**



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, CEN, ASTM, DIN, BSI, UNI.

TENAX SpA
Geosynthetics Division
 Via dell'Industria, 3
 I-23897 Viganò (LC) ITALY
 Tel. (+39) 039.9219307
 Fax (+39) 039.9219200
 e-mail: geo.div@tenax.net
 Web Site: www.tenax.net

TENAX International B.V.
Geosynthetics Division
 Via Ferruccio Pelli, 14
 CH-6900 Lugano SWITZERLAND
 Tel. (+41) 091.9242485
 Fax (+41) 091.9242489
 e-mail: geo@tenax.ch
 Web Site: www.tenax.net