

# TENAX LBO SAMP

Type: **370**

Bi-oriented geogrids



TENAX **LBO 370 SAMP** are polypropylene integral geogrids manufactured from a unique process of extrusion and biaxial orientation to enhance the tensile stiffness. They have been shown to increase the design life of projects by improving performance of the reinforced granular bases and reducing differential settlement. A larger than average aperture size and rib thickness combined with the high junction strength creates optimal interlock and confinement with coarse aggregate. The 65x65mm apertures allow for a wider range of granular material to be selected especially those materials having large granular stones thereby offering the potential for significant cost savings.

TENAX **LBO 370 SAMP** geogrids feature consistently high tensile strength and modulus, excellent resistance to construction damage and environmental exposure. Furthermore, the geometry of these geogrids allow for strong mechanical interlock to take place in applications such as ballast stiffening of railway construction layers.

## Typical applications

Ballast reinforcement, load transfer platforms (LTPs), crane / piling platforms and access routes, HGV areas, airport runways, port loading areas and temporary or permanent access roads e.g. wind farm access roads.

PHYSICAL CHARACTERISTICS	TEST METHOD	DATA
STRUCTURE		BI-ORIENTED GEOGRIDS
MESH TYPE		SQUARE APERTURES
STANDARD COLOR		BLACK
POLYMER TYPE		POLYPROPYLENE
CARBON BLACK CONTENT	ASTM D4218	2.0%
PACKAGING	ISO 10320	ROLLS IN POLYETHYLENE BAGS WITH I.D. LABEL

DIMENSIONAL CHARACTERISTICS	TEST METHOD	UNIT	LBO 370 SAMP	Notes
MESH SIZE MD		mm	65	b,d,e
MESH SIZE CMD		mm	65	b,d,e
ROLL WIDTH		m	4.3	b,h
ROLL LENGTH		m	70.0	b,g
ROLL DIAMETER		m	0.41	b
ROLL VOLUME		m <sup>3</sup>	0.74	b
GROSS ROLL WEIGHT		kg	118.6	b

TECHNICAL CHARACTERISTICS	TEST METHOD	UNIT	LBO 370 SAMP		Notes
			MD	CMD	
TENSILE STRENGTH AT 2% STRAIN	ISO 10319	kN/m	11.0	12.0	c,d,g
PEAK TENSILE STRENGTH	ISO 10319	kN/m	30.0	30.0	a,c,d,g
YIELD POINT ELONGATION	ISO 10319	%	10.0	10.0	b,c,d
JUNCTION STRENGTH	GRI GG2	kN/m	29.0	29.0	b,d
RESISTANCE TO ABRASION	ISO 13427	%	>94		b,d,f

### 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)  
CMD: transversal direction (across roll width)
- e) Mesh Size Tolerance: ±3 mm
- g) Tolerance: - 1 kN/m
- f) independent Testing by BTTG (U.K.)
- g) Other length on request
- h) Other width of m. 4.0 on request



## Typical Characteristics

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The TENAX Laboratory has been operational since 1980 and has been continuously improved with the purpose of assuring comprehensive 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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