Grupo Líder en Geosintéticos, Mallas y Cajas Plásticas

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FICHA DE DATOS TÉCNICOS

GEOMALLA BIAXIAL LBO 302

Type: 302
Single Layer Bi-axial Geogrids (Now available in the USA)

TENAX LBO 302 SAMP are polypropylene geogrids especially designed for soil stabilization and reinforcement applications.
LBO 302 SAMP geogrids are manufactured from a unique process of extrusion and biaxial orientation to enhance their tensile properties.
TENAX LBO 302 SAMP geogrids feature consistently high tensile strength and modulus, excellent resistance to construction damages and environmental exposure.
Furthermore, the geometry of TENAX LBO 302 SAMP geogrids allows strong mechanical interlock with the soil being reinforced.

Typical applications
Soil 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**	**TT 70L**	**NOTES**
THICKNESS: JUNCTION	ASTM D 1777	in (mm)	0.17 (4.2)	b
THICKNESS: RIB MD/TD		in/in (mm/mm)	0.08/0.05 (2.0/1.2)	b,d
MESH SIZE MD		in (mm)	1.06 (27)	b,d
MESH SIZE TD		in (mm)	1.57 (40)	b,d
OPEN AREA	CW 02215	%	70	b
ROLL WIDTH		Ft (m)	13.1 (4.0)	b
ROLL LENGTH		Ft (m)	246.1 (75.0)	b
ROLL AREA		ft² (m²)	4305.6 (400)	b
GROSS ROLL WEIGHT		lbs (kg)	282.2 (128)	b

TECHNICAL CHARACTERISTICS	TEST METHOD	UNIT	TT 70L		NOTES
			MD	TD	
TENSILE STRENGTH AT 2% STRAIN	ASTM D 6637	lbs/ft (kN/m)	411.0 (6.0)	685.4 (10.0)	a,c,d
TENSILE STRENGTH AT 5% STRAIN	ASTM D 6637	lbs/ft (kN/m)	822.5 (12.0)	1370.8 (20.0)	a,c,d
TENSILE MODULUS AT 2% STRAIN	ASTM D 6637	lbs/ft (kN/m)	20562 (300)	34270 (500)	a,c,d
TENSILE MODULUS AT 5% STRAIN	ASTM D 6637	lbs/ft (kN/m)	16449 (240)	27416 (400)	a,c,d
PEAK TENSILE STRENGTH	ASTM D 6637	lbs/ft (kN/m)	1336.5 (19.5)	2159.0 (31.5)	a,c,d
JUNCTION EFFICIENCY	GRI-GG2	%	93		
FLEXURAL RIGIDITY	ASTM D 1388	mg-cm	750000		a,c
TORSIONAL RIGIDITY	US ARMY	kg-cm/deg	7.5		
RESISTANCE TO INSTALLATION DAMAGE	ASTM D 5818	%SC/%SW/%GP	>95/>95/>95		
RESISTANCE TO UV DEGRADATION	ASTM D 4355	%	100		

NOTES
a) Minimum rolls values determined in accordance with ASTM D 4759 b) Typical values c) Tests performed using extensometers d) MD: machine direction (longitudinal to the roll) TD: transversal direction (across roll width)