

Product Data Sheet

Biaxial Geogrid TLG-12

TLG-12 Polypropylene Biaxial Geogrid is a integrally formed structure manufactured at a facility that has achieved **ISO 9001** certification for its systematic approach to quality. The construction of the biaxial geogrid makes it ideal for Base Reinforcement and Subgrade Improvement with its excellent structure stability and strong mechanical interlock performance.

TLG-12 conforms to the property values listed below:

PROPERTY	TEST METHOD	UNITS	TLG-12	
			MD Values ⁴	XMD Values ⁴
INDEX				
Aperture Dimensions	Nominal	mm (in)	25 (1.0)	33 (1.3)
Minimum Rib Thickness	Nominal	mm (in)	1.27 (0.05)	1.27 (0.05)
Tensile Strength at 2% Strain	ASTM D6637	kN/m (lb/ft)	6.0 (410)	9.0 (620)
Tensile Strength at 5% Strain	ASTM D6637	kN/m (lb/ft)	11.8 (810)	19.6 (1340)
Ultimate Tensile Strength	ASTM D6637	kN/m (lb/ft)	19.2 (1310)	28.8 (1970)
STRUCTURAL INTEGRITY				
Junction Efficiency	GRI GG2	% Ult. Strength	93	
Flexural Stiffness	ASTM D5732	mg-cm	750,000	
Aperture Stability	COE Method	m-N/deg	0.65	
DURABILITY				
Installation Damage Resistance ⁵	ASTM D6637	%SC / %SW / %GP	95 / 93 / 90	
Long Term Degradation Resistance ⁶		%	100	
UV Degradation Resistance ⁷		%	100	
STANDARD PACKAGING				
Roll Width / Length	Measured	m (ft)	3.95m (12.95 ft) x 50m (164 ft)	

NOTES:

1. The property values listed above are effective 10/2013 and are subject to change without notice.
2. Thrace-LINQ reserves the right to alter product specifications at any time without prior notice. It is the responsibility of all users to satisfy themselves that the above data are current and that the product is suitable for its intended end use.
3. Polypropylene is the constituent polymer used in the production of the Thrace-LINQ biaxial geogrids.
4. Unless noted otherwise, shown values are minimum average roll values measured according to ASTM D4759-02.
5. Resistance to loss of load capacity/structural integrity when it is subjected to mechanical installation stress in poorly graded gravel (GP), well graded sand (SW), and clayey sand (SC). Load capacity to be determined according to ASTM D6637-01 and geogrid sampled according to ASTM D5818-06.
6. Resistance to loss of load capacity or structural integrity when subjected to chemically aggressive environments in accordance with EN 14030.
7. Resistance to loss of load capacity or structural integrity when subjected to ultraviolet light and aggressive weathering in accordance with EN 12224.

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