

**TBX12 Biaxial Geogrid**

**Polypropylene – single layer of extruded biaxial geogrid**

Terrafix TBX12 is a Polypropylene Single Layer Extruded Biaxial Geogrid. Used as an effective base reinforcement and subgrade improvement. Terrafix TBX12 Biaxial Geogrid is inert to biological degradation and resists naturally encountered chemicals, alkalis, and acids. Polypropylene is stable within a pH range of 2 to 13.

Property	ASTM Test Method	Machine Direction Strength (MD)	Cross Machine Direction Strength (XMD)
<b>Mechanical Properties</b>			
• Ultimate Tensile Strength <sup>(2)</sup>	D 6637	19.2 kN/m	28.8 kN/m
• Junction Efficiency		95.8 %	94.1 %
• Tensile Strength @ 2% Strain <sup>(2)</sup>	D 6637	6.0 kN/m	9.0 kN/m
• Tensile Strength @ 5% Strain <sup>(2)</sup>	D 6637	11.8 kN/m	19.6 kN/m
• Flexural Stiffness/Rigidity	D 7748	2,302,000 mg-cm	991,000 mg-cm
• Aperture Stability <sup>(1)</sup>		2.18 m-N/deg @ 20kg-cm torque	

**Roll Properties**

• Aperture Size <sup>(2)</sup>	--	25 mm (± 1 mm)	33 mm (± 1 mm)
• Rib Thickness <sup>(2)</sup>	--	1.75 mm	1.26 mm
• Roll Size	--	50 m	3.95 m

**Typical Geogrid Properties**

• Carbon Black Content	D 4218	2%
• Resistance to UV Degradation	D 4355	100%

<sup>(1)</sup> In-plane torsional rigidity measured by applying a moment to the central junction of a 225mm x 225mm specimen restrained at its perimeter in accordance with U.S. Army Corps of Engineers Methodology for measurement of Torsional Rigidity (Kinney, T.C. Aperture Stability Modulus ref 3, 3.1.2000)

<sup>(2)</sup> Values shown are MARV as per GRI