

LBO 220 Bi-axial Geogrid Polypropylene

TENAX LBO 220 are polypropylene geogrids especially designed for soil stabilization and reinforcement applications. LBO 220 geogrids are manufactured from a unique process of extrusion and biaxial orientation to enhance their tensile properties. TENAX LBO 220 geogrids feature consistently high tensile strength and modulus, excellent resistance to construction damages and environmental exposure.

Typical Applications

Soft soil stabilization, base reinforcement, embankments over soft soils, working platforms, haul roads

PRODUCT PROPERTIES

| Index Properties | Units | MD Values ¹ | XMD Values ¹ |
|---|--------------|------------------------|-------------------------|
| Aperture Dimensions ^{2a} | mm (in) | 36 (1.42) | 30 (1.2) |
| Minimum Rib Thickness ^{2b} | mm (in) | 1.3 (0.05) | 1.0 (0.04) |
| Tensile Strength @ 2% Strain ³ | kN/m (lb/ft) | 7.0 (480) | 7.0 (480) |
| Tensile Strength @ 5% Strain ³ | kN/m (lb/ft) | 14.0 (960) | 14.0 (960) |
| Ultimate Tensile Strength ³ | kN/m (lb/ft) | 20.0 (1,370) | 20.0 (1,370) |

STRUCTURAL INTEGRITY

| | | |
|----------------------------------|---------|-----------|
| Junction Efficiency ⁴ | % | 90 |
| Flexural Stiffness ⁵ | mg-cm | 1,000,000 |
| Aperture Stability ⁶ | m-N/deg | 0.5 |

DURABILITY

| | | |
|--|---|-----|
| Resistance to Long Term Degradation ⁸ | % | 90 |
| Resistance to UV Degradation ⁹ | % | 100 |

DIMENSIONS AND DELIVERY

The biaxial geogrid shall be delivered to the jobsite in roll form with each roll individually identified and nominally measuring 4m (13.1-FT) in width and 75m (246-FT) in length.

Notes

1. Unless indicated otherwise, values shown are minimum average roll values determined in accordance with ASTM D4759-02.
2. (a) Minimum average value, (b) Nominal dimensions.
3. Tensile Strength is determined in accordance with ASTM D6637-01.
4. Load transfer capability determined in accordance with GRI-GG2-05 and expressed as a percentage of ultimate tensile strength.
5. Resistance to bending force determined in accordance with ASTM D7748
6. Resistance to in-plane rotational movement measured by applying a 20 kg-cm (2 m-N) moment to the central junction of a 9-IN x 9-IN specimen restrained at its perimeter in accordance with US Army Corps of Engineers Methodology for measurement of torsional rigidity.
7. Resistance to loss of load capacity or structural integrity when subjected to chemically aggressive environments.
8. Resistance to loss of load capacity or structural integrity when subjected to ultraviolet light aggressive weathering.

Tenax warrants that the geogrid products delivered hereunder conforms to the stated specification at the time of delivery. All other warranties including claims for performance or suitability for application are excluded. This product specification supersedes all prior specifications for the product described above and is not applicable for products shipped before November 2014.

