

# TENAX HM4

## Bi-oriented Geogrids

Tenax HM geogrids are HIGH MODULUS (HM) bi-oriented geogrids especially designed for soil stabilisation and reinforcement applications. Tenax HM geogrids are manufactured using a unique process of extrusion and bi-axial orientation to enhance their tensile properties and overall performance when operating at low strains of 0.5% and 2%. They are manufactured from polypropylene (PP) and tested to maintain a high tensile modulus, high strength junction, as well as an increased durability against installation damage.

### TYPICAL APPLICATIONS.

Ground stabilisation reinforcement leading to a reduction of required structural fill in applications such as; airport foundation layers, railway construction layers, road pavement design, as well as foundation and piling platform designs and other other solutions involving control of differential settlements.

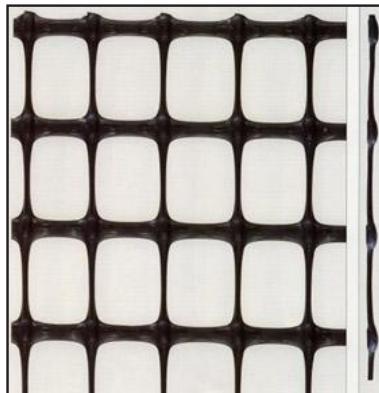
Physical Characteristics	Test Method	Data
Structure	-	Bi-oriented Geogrids
Mesh Type	-	Rectangular Apertures
Standard Colour	-	Black
Polymer Type	-	Polypropylene
Carbon Black Content	ASTM D4218	2.0%

Dimensional Characteristics	Test Method	Unit	Value	Notes
Aperture Size MD	-	mm	40	b, d, e
Aperture Size TD	-	mm	27	b, d, e
Roll Width	-	m	4.0	b
Roll Length	-	m	50	b
Roll Diameter	-	m	0.45	b
Roll Volume	-	m <sup>3</sup>	0.70	b

Technical Characteristics	Test Method	Unit	Value	Notes
Strength at 0.5% Strain MD TD	ISO 10319	kN/m	6.5 7.5	a, b, c, d
Strength at 2% Strain MD TD	ISO 10319	kN/m	16.0 17.5	a, b, c, d
Resistance to Chemical Degradation	EN 14030	%	100	b
Resistance to Weathering	EN 12224	%	100	b

#### NOTES:

- (a) Tensile Tolerance  $\pm 1$  kN/m
- (b) Typical values
- (c) Tests performed using extensometers
- (d) MD: machine direction (longitudinal to the roll);  
TD transverse direction (across roll width)
- (e) Aperture Tolerance  $\pm 3$ mm



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