

GeoMatt TB Range

Needle punched and thermally bonded nonwoven (PP) geotextile

GeoMatt Geotextiles are manufactured from 100% virgin polypropylene (PP) polymer and are UV stabilized. These products can be successfully used in transportation, environmental, hydraulic and civil engineering applications and perform major functions including separation, filtration, drainage, reinforcement and membrane protection.

TECHNICAL DATA SHEET

| MECHANICAL PROPERTIES | TEST | UNIT | TB8 | TB9 | TB10 | TB11 | TB12 | TB13 | TB14 |
|------------------------------|---------------------------|--|--------|--------|--------|--------|--------|--------|--------|
| Tensile Strength - MD | EN ISO 10319 | kN/m | 9 | 10 | 10.5 | 11.5 | 12.5 | 15 | 16 |
| Tensile Strength - XD | EN ISO 10319 | kN/m | 9 | 10 | 10.5 | 11.5 | 12.5 | 15 | 16 |
| Elongation at break - MD | EN ISO 10319 | % | 45 | 45 | 45 | 45 | 45 | 45 | 45 |
| Elongation at break - XD | EN ISO 10319 | % | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
| CBR Puncture Resistance | EN ISO 12236 | N | 1450 | 1650 | 1800 | 2000 | 2100 | 2300 | 2400 |
| Dynamic Cone Drop | EN ISO 13433 | mm | 35 | 29 | 27 | 25 | 23 | 21 | 20 |
| Pyramid Puncture | EN ISO 14574 | N | - | - | - | - | 124 | 137 | 150 |
| HYDRAULIC PROPERTIES | TEST | UNIT | TB8 | TB9 | TB10 | TB11 | TB12 | TB13 | TB14 |
| Permeability | EN ISO 11058 | m/s. 10 ⁻³ | 110 | 110 | 100 | 95 | 90 | 87 | 85 |
| Waterflow normal to plane | EN ISO 11058 | l/m2.s | 110 | 110 | 100 | 95 | 90 | 87 | 85 |
| Characteristic Opening Size | EN ISO 12956 | µm | 120 | 110 | 110 | 100 | 85 | 85 | 85 |
| PHYSICAL PROPERTIES | TEST | UNIT | TB8 | TB9 | TB10 | TB11 | TB12 | TB13 | TB14 |
| Polymer Type | 100% Virgin Polypropylene | | | | | | | | |
| Thickness under 2 kPa | EN ISO 9863-1 | mm | 1 | 1.05 | 1.1 | 1.25 | 1.3 | 1.35 | 1.4 |
| Thickness under 20 kPa | EN ISO 9863-1 | mm | 0.83 | 0.86 | 0.96 | 1.1 | 1.17 | 1.2 | 1.22 |
| Mass per Unit Area | EN ISO 9864 | g/m ² | 100 | 110 | 120 | 135 | 145 | 160 | 170 |
| Roll Width (+/- 10%) | | m | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 |
| Roll Length (+/- 10%) | | m | 200 | 240 | 200 | 200 | 190 | 160 | 165 |
| 40' Container Load (+/- 10%) | | m ² | 63,720 | 76,464 | 63,720 | 63,720 | 60,534 | 50,976 | 52,569 |
| Roll Diameter (+/- 10%) | | cm | 50 | 42.5 | 46 | 47 | 48.5 | 51 | 38 |
| DURABILITY | | | | | | | | | |
| UV Protection | EN 12224 | Retained Strength of > 80% after 50 MJ/m ² exposure. To be covered within 1 month after installation. Predicted to be durable for over 25 years in natural soils with 4< ph. <9 and soil temperature <25 °C. | | | | | | | |
| Oxidation Resistance | EN ISO 13438 | Retained Strength >90% at (110±1) °C after 14 days exposure. | | | | | | | |
| Chemical Resistance | EN ISO 14030 | Excellent. | | | | | | | |
| Microbiological Resistance | EN ISO 12225 | Excellent. | | | | | | | |

The information contained in this document is provided in good faith and as a general guide to the use of such products, and is, to the best of our knowledge, true and accurate. There is no implied or expressed warranty, and Geotextiles East Africa Ltd does not accept any liability for any information supplied, as the conditions of use and installation of the material are out of our control.