

Penteco GC300-10-DS 300 mil Geocomposite 10 oz textile (2 sides)

- ❖ **Drainage**
- ❖ **Erosion Control**
- ❖ **Leak Detection**
- ❖ **Gas Mitigation**
- ❖ **Protection**

Geocomposites provide a controlled/ engineered drainage median for applications requiring water or gas mitigation. They are commonly used in geomembrane containment systems where groundwater/gas is present. Also, it can provide protection to the liner against subgrade imperfections, and allow for leaks to be detected through the sump collection system.

The geocomposite is composed of a geonet core and a laminated nonwoven geotextile. The geonet itself is composed of a 2-layer (biplanar) mesh which allows the liquid/gas to travel in any direction. The geotextile facing-side is typically installed against the subgrade to prevent soil fines from clogging the geonet.

| GC300-10-DS | | | M.A.R.V | |
|--|-------------|--|--|--|
| Property | Test Method | Frequency | Imperial | Metric |
| Geocomposite | | | | |
| Transmissivity | ASTM D-4716 | 1/540,000 ft ² (1/50,000 m ²) | 7 x 10 ⁻⁴ m ² /sec | 3.4 gal/min/ft |
| Ply Adhesion Average | ASTM D-7005 | 1/50,000 ft ² (1/4,600 m ²) | 1.0 lbs/in | 178 g/cm |
| Geonet Component¹ | | | | |
| Thickness (min.avg) | ASTM D-5199 | 1/50,000 ft ² (1/4,600 m ²) | 300 mil | 7.6 mm |
| Transmissivity | ASTM D-4716 | 1/540,000 ft ² (1/50,000 m ²) | 38.6 gal/min/ft | 8 x 10 ⁻³ m ² /sec |
| Density (min.) | ASTM D-792 | 1/50,000 ft ² (1/4,600 m ²) | 0.94 g/cm ³ | 0.94 g/cm ³ |
| Peak Tensile Strength (MD) | ASTM D-7179 | 1/50,000 ft ² (1/4,600 m ²) | 75 lbs/in | 13.3 N/mm |
| Carbon Black Content | ASTM D-4218 | 1/50,000 ft ² (1/4,600 m ²) | 2.0% | 2.0% |
| Geotextile Component¹ (double-sided) | | | | |
| Mass | ASTM D-5261 | 1/90,000 ft ² (1/8,400 m ²) | 10 oz/yd ² | 339 g/m ² |
| Grab Tensile Strength | ASTM D-4632 | 1/90,000 ft ² | 270 lbs | 1200 N |
| Grab Elongation | ASTM D-4632 | 1/90,000 ft ² | 50% | 50% |
| CBR Puncture Strength | ASTM D-6241 | 1/540,000 ft ² (1/50,000 m ²) | 725 lbs | 3230 N |
| Trapezoidal Tear Strength | ASTM D-4533 | 1/90,000 ft ² | 105 lbs | 467 N |
| Apparent Opening Size (max.) | ASTM D-4751 | 1/540,000 ft ² (1/50,000 m ²) | 80 U.S Sieve max | 0.180 mm |
| Permittivity | ASTM D-4491 | 1/540,000 ft ² (1/50,000 m ²) | 1.1 sec ⁻¹ | 1.1 sec ⁻¹ |
| Water Flow Rate | ASTM D-4491 | 1/540,000 ft ² (1/50,000 m ²) | 80 gpm/ft ² | 3280 (l/min/m ²) |
| UV Resistance | ASTM D-4355 | % Retained after 500 hrs. | 70% | 70% |
| Dimensions | | | | |
| Typical Roll Size | Measured | | 14.75 ft x 140 ft | 4.50 m x 42.7 m |
| Area | Calculated | | 2065 ft ² | 192 m ² |

Notes:

- (1) Component properties prior to lamination.
- (2) Roll Lengths may vary depending on the manufacturer. All roll widths/lengths have a tolerance of ±1 %.
- (3) Custom roll lengths can be ordered. Transportation cost might be affected.
- (4) Penteco is a distributor for this product with manufacturing partners based out of Canada & USA.
- (5) Manufacturer data sheet provided at time of purchase.

DISCLAIMER: The data above represents the manufacturer's laboratory testing of their product. It is the user's responsibility to determine the suitability of the products. Penteco is a distributor for these products through its manufacturing partners. Penteco will provide the manufacturers data sheet at the time of sale. There may be very slight variation, but overall, the data represents standard industry specifications. Penteco and manufacturing partners assume no liability, nor can they provide any warranty, without having additional information regarding the use of the products. The same goes for any infringement on patents - no permission can be granted without further disclosure.

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