

# DOUBLE-SIDED GEOCOMPOSITES

## ENGLISH UNITS

### ***GEOCOMPOSITE PROPERTIES***

### **Minimum Average Values**

| Property   | Test Method | GC-06D-2.0   | GC-08D-2.0   | GC-06D-2.5   | GC-08D-2.5   |
|--|-------------|--|--|--|--|
| Transmissivity, (MD), gal/min-ft<br>metal plate/geocomposite/metal plate<br>hydraulic gradient, $i = 1$<br>normal pressure = 10,000 lb/ft <sup>2</sup><br>seat time = 15 minutes | ASTM D 4716 | 0.4<br>( $0.8 \times 10^{-4} \text{ m}^2/\text{sec}$ ) | 0.2<br>( $4.0 \times 10^{-5} \text{ m}^2/\text{sec}$ ) | 1.0<br>( $2.0 \times 10^{-4} \text{ m}^2/\text{sec}$ ) | 0.5<br>( $1.0 \times 10^{-4} \text{ m}^2/\text{sec}$ ) |
| Ply Adhesion, lb/in  | ASTM D 7005 | 1  | 1  | 1  | 1  |
| <b>Roll Dimensions</b>   |             |  |  |  |  |
| 1. Roll Width, ft  |             | 13.5   | 13.5   | 13.5   | 13.5   |
| 2. Roll Length, ft   |             | 250  | 200  | 175  | 150  |

### ***COMPONENT PROPERTIES***

#### **Geonet**

|   |             |  |  |  |  |
|---|-------------|--|--|--|--|
| Thickness, mil  | ASTM D 5199 | 200  | 200  | 250  | 250  |
| Density, min., g/cc   | ASTM D 1505 | 0.940  | 0.940  | 0.940  | 0.940  |
| Carbon Black Content, %   | ASTM D 1603 | 1.5 - 3.0  | 1.5 - 3.0  | 1.5 - 3.0  | 1.5 - 3.0  |
| Tensile Strength, (Peak, MD), lb/in   | ASTM D 7179 | 45   | 45   | 60   | 60   |
| Transmissivity, (MD), gal/min-ft<br>metal plate/net/metal plate<br>hydraulic gradient, $i = 1$<br>normal pressure = 10,000 lb/ft <sup>2</sup><br>seat time = 15 minutes | ASTM D 4716 | 5.0<br>( $1.0 \times 10^{-3} \text{ m}^2/\text{sec}$ ) | 5.0<br>( $1.0 \times 10^{-3} \text{ m}^2/\text{sec}$ ) | 7.2<br>( $1.5 \times 10^{-3} \text{ m}^2/\text{sec}$ ) | 7.2<br>( $1.5 \times 10^{-3} \text{ m}^2/\text{sec}$ ) |

#### **Geotextile**

|                                 |             |          |          |          |          |
|---------------------------------|-------------|----------|----------|----------|----------|
| Unit Weight, oz/yd <sup>2</sup> | ASTM D 5261 | 6        | 8        | 6        | 8        |
| Grab Strength, lb               | ASTM D 4632 | 160      | 220      | 160      | 220      |
| Grab Elongation, %              | ASTM D 4632 | 50       | 50       | 50       | 50       |
| Tear Strength, lb               | ASTM D 4533 | 65       | 80       | 65       | 80       |
| Puncture Strength, lb           | ASTM D 4833 | 90       | 120      | 90       | 120      |
| Permittivity, sec <sup>-1</sup> | ASTM D 4491 | 1.3      | 1.3      | 1.3      | 1.3      |
| AOS, MaxARV                     | ASTM D 4751 | 70 sieve | 80 sieve | 70 sieve | 80 sieve |
| UV Stability, % ret. (500 hr.)  | ASTM D 4355 | 70       | 70       | 70       | 70       |

The above property values, unless otherwise specified, are the minimum acceptable average test results for any roll based on the specified test methods and do not refer to an individual test specimen. Geotextile property values are Minimum Average Roll values, except for AOS, which is Maximum Average Roll Value. Geonet and Geotextile properties are tested prior to lamination. This data is provided for informational purposes only and is not intended as a warranty or guarantee. Poly-Flex, Inc. assumes no responsibility in connection with the use of this data. These values are subject to change without notice. REV. 11/06