



## ■ FX<sup>®</sup>-800PET

Carthage Mills' FX<sup>®</sup>-800PET is a uniaxial, high-performance/high-strength woven polyester geotextile that was developed for the most demanding reinforcement applications. FX<sup>®</sup>-800PET is composed of high tenacity, high molecular weight multifilament polyester (PET) yarns that are woven into a stable network placed under tension, and is inert to biological degradation and resistant to naturally encountered chemicals, alkalis, and acids.

The Carthage Mills' line of FX<sup>®</sup>-PET High-Strength geotextiles deliver higher ultimate tensile strength properties, excellent creep resistance and soil interaction, and are ideally suited for a variety of soil reinforcement applications including reinforced slopes, roads and embankments over unstable soils, voids bridging, retaining walls, soft soil subgrade stabilization, geotubes, and landfill/lagoon/sludge pond closures.

| PROPERTY   | TEST METHOD           | DATA  |  |
|--|-----------------------|---|--|
|  |                       | METRIC  | ENGLISH  |
| <input type="checkbox"/> <b>Mechanical/Reinforcement</b>       |                       |   |  |
| Tensile Strength @ Ultimate (MD)                               | ASTM D 4595           | 140 kN/m  | 800 lbs/in<br>9,600 lbs/ft                         |
| Tensile Strength @ Ultimate (XMD)                              |                       | 56.9 kN/m   | 300 lbs/in<br>3,600 lbs/ft                         |
| Tensile Strength @ 5% Strain (MD)                              |                       | 58.5 kN/m   | 334 lbs/in<br>4,010 lbs/ft                         |
| Creep Reduced Strength (MD)                                    | ASTM D 5262           | 87.0 kN/m   | 497 lbs/in<br>5,960 lbs/ft                         |
| Long Term Design Strength – LTDS (MD)<br>(Type 3 – Silty Sand) | GRI-GT7               | 67.6 kN/m   | 386 lbs/in<br>4,633 lbs/ft                         |
| <input type="checkbox"/> <b>Endurance</b>                      |                       |   |  |
| UV Resistance  | ASTM D 4355           | 50% @ 500 hrs                                     |  |
| <input type="checkbox"/> <b>Physical</b>                       |                       |   |  |
| Standard Roll Sizes / Packaging / Weight                       | Measured<br>(Typical) | 4.57 m x 91.4 m<br>418 m <sup>2</sup><br>160.6 kg | 15.0 ft x 300 ft<br>500 yd <sup>2</sup><br>354 lbs |

- Unless otherwise stated, all values stated here are Minimum Average Roll Values (MARV).
- Carthage Mills' high strength FX<sup>®</sup>-PET geotextiles are manufactured from polyester yarn with a molecular weight (M<sub>n</sub>) >25,000 grams/mole and Carboxyl End Groups (CEG's) < 30 mmol/kg.
- The properties reported above are effective 05/01/11 and are subject to change without notice.

$$LTDS = \frac{T_{ULTIMATE}}{RF_{CR} \times RF_{ID} \times RF_D} = \frac{9600}{1.61 \times 1.17 \times 1.1} = 4633 \text{ lbs/ft}$$

Partial Reduction Factors: RF<sub>CR</sub> = for creep deformation  
 RF<sub>ID</sub> = for installation damage (silty sand)  
 RF<sub>D</sub> = for biological and chemical degradation

Seller makes no warranty, expressed or implied, concerning the product furnished hereunder other than at the time of delivery it shall be of the quality and specification stated herein. Any implied warranty of fitness for a particular purpose is expressly excluded, and, to the extent that it is contrary to the foregoing sentence, any implied warranty of merchantability is expressly excluded. Any recommendations made by seller concerning the uses or applications of said product are believed reliable and seller makes no warranty of results to be obtained. If the product does not meet Carthage Mills current published specifications, and the customer gives notice to Carthage Mills before installing the product, then Carthage Mills will replace the product without charge or refund the purchase price.