



# ■ FX<sup>®</sup> High-Strength Series (PET) of Woven Geotextiles

Carthage Mills' FX<sup>®</sup> High-Strength Series (PET) of woven geotextiles are composed of high-tenacity, high molecular weight, multifilament polyester (PET) yarns that are woven into a stable network placed under tension, are inert to biological degradation, and resistant to naturally encountered chemicals, alkalis and acids.

PROPERTY	METHOD	UNITS	FX <sup>®</sup> -400PET	FX <sup>®</sup> -600PET	FX <sup>®</sup> -800PET	FX <sup>®</sup> -1200PET	FX <sup>®</sup> -Project Specific
<input type="checkbox"/> <b>Mechanical/Reinforcement</b>							Carthage Mills can custom manufacture FX <sup>®</sup> -PET High-Strength polyester geotextiles to <u>meet individual project specifications</u> up to approximately <b>55,000 lbs/ft Ultimate Tensile Strength</b> ; with minimal lead times meeting difficult delivery requirements.  Call for a <b>Custom Quotation</b> and delivery schedule.  <b>Made in the U.S.A.!</b>
Tensile Strength @ Ultimate MD	ASTM D 4595	lbs/in lbs/ft	400 4,800	600 7,200	800 9,600	1,200 14,400	
Tensile Strength @ Ultimate XMD			400 4,800	300 3,600	300 3,600	300 3,600	
Tensile Strength @ 5% Strain MD		lbs/ft	2,300	3,035	4,010	5,328	
Tensile Strength @ 5% Strain XMD			2,300	–	–	–	
Creep Reduced Strength	ASTM D 5262		2,980	4,470	5,960	8,944	
Long Term Design Strength – LTDS <sup>(1)</sup>	GRI-GT7		2,317	3,475	4,633	6,950	
<input type="checkbox"/> <b>Hydraulics / Filtration</b>							
Permittivity	ASTM D 4491	sec <sup>-1</sup>	0.5	0.5	0.5	0.5	
Apparent Opening Size (AOS)	ASTM D 4751	US Std Sieve	35	35	35	35	
<input type="checkbox"/> <b>Endurance</b>							
UV Resistance	ASTM D 4355	%	65%				
<input type="checkbox"/> <b>Physical</b>							
Mass Per Unit Area (Typical)	ASTM D 5261	oz/yd <sup>2</sup>	8.8	11.0	13.2	16.0	
Standard Roll Sizes (Typical)	Measured	ft (yd <sup>2</sup> )	15.0 x 300 (500 yd <sup>2</sup> ) Custom sizes also available				

<sup>(1)</sup> Type 3 – Silty Sand

- Unless otherwise stated, all values stated here are Minimum Average Roll Values (MARV); are calculated as the Typical minus two standard deviations; and are based on a 97.7% confidence level.
- The properties reported above are effective 05/01/11 and subject to change without notice.

$$LTDS = \frac{T_{ULTIMATE}}{RF_{CR} \times RF_{ID} \times RF_D} = \frac{T_{ULTIMATE}}{1.61 \times 1.17 \times 1.10}$$

Partial Reduction Factors: RF<sub>CR</sub> = Creep Deformation  
 RF<sub>ID</sub> = Installation Damage  
 RF<sub>D</sub> = 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.