



## ■ FX<sup>®</sup>-400/600MF

Carthage Mills' FX<sup>®</sup>-400/600MF is a woven high-performance/high-strength geotextile produced from 100% high-tenacity polypropylene yarns. Constructed with a unique twill weave, the FX<sup>®</sup>-400/600MF provides long-term separation, filtration, and the higher tensile strengths required for soil stabilization and reinforcement applications.

The high tensile modulus and durability of Carthage Mills' high-performance geotextiles make them ideal for many demanding soil separation/reinforcement applications including: roadway and railway construction, embankments over soft soils, waste confinement, wrapped-face retaining walls, and steepened slopes. They are inert to biological degradation, and resistant to naturally encountered chemicals, alkalis and acids.

PROPERTY	TEST METHOD	DATA	
		METRIC	ENGLISH
<input type="checkbox"/> <b>Mechanical/Performance/Design</b>	ASTM D 4595	70.5 x 105.1 kN/m	400 x 600 lbs/in 4800 x 7200 lbs/ft
Wide Width Tensile Ultimate			14% x 9%
Wide Width Elongation		17.5 x 35.5 kN/m	100 x 220 lbs/in
Wide Width Tensile @ 5% Strain			
<input type="checkbox"/> <b>Mechanical/Index</b>	ASTM D 4632	2.67 x 3.11 kN	600 x 700 lbs
Grab Tensile Strength			15%
Grab Tensile Elongation			
Mullen Burst	ASTM D 3786	>8273 kPa	>1200 psi
Trapezoidal Tear	ASTM D 4533	.080 x 1.22 kN	180 x 275 lbs
Puncture	ASTM D 4833	1.25 kN	280 lbs
CBR Puncture	ASTM D 6241	NP	NP
<input type="checkbox"/> <b>Endurance</b>			
UV Resistance	ASTM D 4355	80% @ 500 hrs	
<input type="checkbox"/> <b>Hydraulics/Filtration</b>			
Permittivity	ASTM D 4491	0.26 sec <sup>-1</sup>	
Water Flow Rate		815 lpm/m <sup>2</sup>	20 gpm/ft <sup>2</sup>
Permeability		0.040 cm/sec	
Apparent Opening Size (AOS)	ASTM D 4751	0.425 mm	40 US Std. Sieve
<input type="checkbox"/> <b>Physical</b>			
Standard Roll Sizes / Packaging / Weight	Measured (Typical)	4.57 m x Custom 185-1045 m <sup>2</sup> 128-599 kg	15.0 ft x Custom 222-1250 yd <sup>2</sup> 283-1320 lbs

- 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 01/10/10 and are subject to change without notice.

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.