



■ FX[®]-400MF

Carthage Mills' FX[®]-400MF is a woven high-performance/high-strength geotextile produced from 100% high-tenacity polypropylene yarns. Constructed with a unique twill weave, the FX[®]-400MF 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"/> Mechanical/Performance/Design	ASTM D 4595		
Wide Width Tensile Ultimate		70.1 kN/m	400 lbs/in 4800 lbs/ft
Wide Width Elongation		9%	
Wide Width Tensile @ 2% Strain		14.0 x 19.3 kN/m	80 x 110 lbs/in
Wide Width Tensile @ 5% Strain		35.0 x 39.4 kN/m	200 x 225 lbs/in
Wide Width Tensile @ 10% Strain		70.1 kN/m	400 lbs/in
<input type="checkbox"/> Mechanical/Index	ASTM D 4632		
Grab Tensile Strength		2.11 x 1.96 kN	475 x 440 lbs
Grab Tensile Elongation		12% x 6%	
Mullen Burst	ASTM D 3786	8273 kPa	1200 psi
Trapezoidal Tear	ASTM D 4533	0.80 kN	180 lbs
Puncture	ASTM D 4833	0.89 kN	200 lbs
CBR Puncture	ASTM D 6241	8.90 kN	2000 lbs
<input type="checkbox"/> Endurance	ASTM D 4355		
UV Resistance		80% @ 500 hrs	
<input type="checkbox"/> Hydraulics/Filtration	ASTM D 4491		
Permittivity		0.40 sec ⁻¹	
Water Flow Rate		1222.4 lpm/m ²	30 gpm/ft ²
Permeability		0.050 cm/sec	
Apparent Opening Size (AOS)	ASTM D 4751	0.600 mm	30 US Std. Sieve
<input type="checkbox"/> Physical	ASTM D 5261		
Mass Per Unit Area (Typical)		474.6 g/m ²	14.0 oz/yd ²
Standard Roll Sizes / Packaging / Weight	Measured (Typical)	4.57 m x 91.4 m 418 m ² 215.5 kg	15.0 ft x 300 ft 500 yd ² 475 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 04/23/09 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.