



■ FX[®]-270TF

Carthage Mills' FX[®]-270TF is a woven high-performance/high-strength geotextile produced from 100% high-tenacity polypropylene yarns. Constructed with a unique twill weave, the FX[®]-270TF 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	43.8 kN/m	250 lbs/in 3000 lbs/ft
Wide Width Tensile Ultimate			
Wide Width Elongation		12% x 8%	
Wide Width Tensile @ 2% Strain		7.0 x 11.4 kN/m	40 x 65 lbs/in
Wide Width Tensile @ 5% Strain		19.3 x 25.7 kN/m	110 x 147 lbs/in
Wide Width Tensile @ 10% Strain		39.4 x 43.8 kN/m	225 x 250 lbs/in
<input type="checkbox"/> Mechanical/Index	ASTM D 4632	1.72 x 1.56 kN	387 x 350 lbs
Grab Tensile Strength			
Grab Tensile Elongation		24% x 18%	
Mullen Burst	ASTM D 3786	5515 kPa	800 psi
Trapezoidal Tear	ASTM D 4533	0.56 kN	125 lbs
Puncture	ASTM D 4833	0.75 kN	169 lbs
CBR Puncture	ASTM D 6241	4.45 kN	1000 lbs
<input type="checkbox"/> Endurance	ASTM D 4355	80% @ 500 hrs	
UV Resistance			
<input type="checkbox"/> Hydraulics/Filtration	ASTM D 4491	0.21 sec ⁻¹	
Permittivity			
Water Flow Rate		631.6 lpm/m ²	15.5 gpm/ft ²
Apparent Opening Size (AOS)	ASTM D 4751	0.513 mm	35 US Std. Sieve
<input type="checkbox"/> Physical	ASTM D 5261	234 g/m ²	6.9 oz/yd ²
Mass Per Unit Area (Typical)			
Standard Roll Sizes / Packaging / Weight	Measured (Typical)	4.57 m x 91.4 m 418 m ² 104.8 kg	15.0 ft x 300 ft 500 yd ² 231 lbs
		5.21 m x 80.1 m 520 m ² 130.2 kg	17.1 ft x 327 ft 622 yd ² 287 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 04/07/09 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.