



FX[®]-270MF

Carthage Mills' FX[®]-270MF is a woven high-performance/high-strength geotextile produced from 100% high-tenacity polypropylene yarns. Constructed with a unique twill weave, the FX[®]-270MF 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	38.5 x 35.9 kN/m	220 x 205 lbs/in
Wide Width Tensile Ultimate			2640 x 2460 lbs/ft
Wide Width Elongation		10% x 9%	
Wide Width Tensile @ 2% Strain		7.0 x 8.6 kN/m	40 x 49 lbs/in
Wide Width Tensile @ 5% Strain		17.7 x 19.8 kN/m	101 x 113 lbs/in
Wide Width Tensile @ 10% Strain	34.2 x 35.0 kN/m	195 x 200 lbs/in	
<input type="checkbox"/> Mechanical/Index	ASTM D 4632	1.39 x 1.13 kN	290 x 255 lbs
Grab Tensile Strength			15%
Grab Tensile Elongation	ASTM D 3786	4481.1 kPa	650 psi
Mullen Burst	ASTM D 4533	0.53 x 0.62 kN	120 lbs x 140 lbs
Trapezoidal Tear	ASTM D 4833	0.53 kN	120 lbs
Puncture	ASTM D 6241	4.45 kN	1000 lbs
CBR Puncture			
<input type="checkbox"/> Endurance	ASTM D 4355	80% @ 500 hrs	
UV Resistance			
<input type="checkbox"/> Hydraulics/Filtration	ASTM D 4491	0.70 sec ⁻¹	
Permittivity		2037.3 lpm/m ²	50 gpm/ft ²
Water Flow Rate		0.040 cm/sec	
Permeability	ASTM D 4751	0.600 mm	30 US Std. Sieve
Apparent Opening Size (AOS)			
<input type="checkbox"/> Physical	ASTM D 5261	194.9 g/m ²	5.75 oz/yd ²
Mass Per Unit Area (Typical)			
Standard Roll Sizes / Packaging / Weight	Measured (Typical)	3.99 m x 50.0 m 199.8 m ² 46.3 kg	13.1 ft x 164 ft 239 yd ² 102 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.