



## ■ FX<sup>®</sup>-320TF

Carthage Mills' FX<sup>®</sup>-320TF 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>-320TF 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	58.3 x 52.5 kN/m	333 x 300 lbs/in
Wide Width Tensile Ultimate			3996 x 3600 lbs/ft
Wide Width Elongation		12% x 10%	
Wide Width Tensile @ 2% Strain		7.9 x 7.9 kN/m	45 x 45 lbs/in
Wide Width Tensile @ 5% Strain		19.8 x 19.8 kN/m	113 x 113 lbs/in
<input type="checkbox"/> <b>Mechanical/Index</b>	ASTM D 4632	1.56 kN	350 lbs
Grab Tensile Strength			15%
Grab Tensile Elongation			
Mullen Burst	ASTM D 3786	6894 kPa	1000 psi
Trapezoidal Tear	ASTM D 4533	0.67 kN	150 lbs
Puncture	ASTM D 4833	0.80 kN	180 lbs
CBR Puncture	ASTM D 6241	4.44 kN	1000 lbs
<input type="checkbox"/> <b>Endurance</b>	ASTM D 4355	70% @ 500 hrs	
UV Resistance			
<input type="checkbox"/> <b>Hydraulics/Filtration</b>	ASTM D 4491	0.70 sec <sup>-1</sup>	
Permittivity			
Water Flow Rate		1834 lpm/m <sup>2</sup>	45 gpm/ft <sup>2</sup>
Apparent Opening Size (AOS)	ASTM D 4751	0.600 mm	30 US Std. Sieve
<input type="checkbox"/> <b>Physical</b>	ASTM D 5261	332.2 g/m <sup>2</sup>	9.8 oz/yd <sup>2</sup>
Mass Per Unit Area (Typical)			
Standard Roll Sizes / Packaging / Weight	Measured (Typical)	4.57 m x 91.4 m 418 m <sup>2</sup> 141.5 kg	15.0 ft x 300 ft 500 yd <sup>2</sup> 312 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 10/01/09 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.