



## ■ FX<sup>®</sup>-270TF

Carthage Mills' FX-270TF is a woven High-Performance geotextile produced from high-tenacity polypropylene yarns. FX-270TF is part of the Carthage [FX<sup>®</sup> High-Performance Series](#) of woven geotextiles, is 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		
Wide Width Tensile Ultimate		46.0 x 40.0 kN/m	3179 x 2711 lbs/ft
Wide Width Elongation		11.4% x 7.9%	
Wide Width Tensile @ 2% Strain		4.2 x 12.7 kN/m	287 x 871 lbs/ft
Wide Width Tensile @ 5% Strain		15.8 x 26.4 kN/m	1085 x 1812 lbs/ft
Wide Width Tensile @ 10% Strain		39.4 x --- kN/m	2700 x --- lbs/ft
<input type="checkbox"/> <b>Mechanical/Index</b>	ASTM D 4632		
Grab Tensile Strength		1.56 x 1.56 kN	350 x 350 lbs
Grab Tensile Elongation		20% x 15%	
Trapezoidal Tear	ASTM D 4533	0.53 x 0.53 kN	120 x 120 lbs
CBR Puncture	ASTM D 6241	4.44 kN	1000 lbs
<input type="checkbox"/> <b>Endurance</b>			
UV Resistance	ASTM D 4355	80% @ 500 hrs	
<input type="checkbox"/> <b>Hydraulics/Filtration</b>	ASTM D 4491		
Permittivity <sup>(1)</sup>		0.15 sec <sup>-1</sup>	
Water Flow Rate <sup>(1)</sup>		448 lpm/m <sup>2</sup>	11 gpm/ft <sup>2</sup>
Apparent Opening Size (AOS) <sup>(1)</sup>	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 91.4 m 418 m <sup>2</sup> 159.66 kg	15.0 ft x 300 ft 500 yd <sup>2</sup> 352 lbs
		5.21 m x 80.1 m 520 m <sup>2</sup> 185.97 kg	17.1 ft x 327 ft 622 yd <sup>2</sup> 410 lbs

NOTES: Mullen Burst Strength ASTM D 3786 is no longer recognized by ASTM D35 on Geosynthetics. Puncture Strength ASTM D 4833 is not recognized by AASHTO M 288-15 and has been replaced with CBR Puncture ASTM D 6241.

- <sup>(1)</sup> At the time of manufacturing. Handling, storage and shipping may change these properties.
- Unless otherwise stated, all values stated here are Minimum Average Roll Values (MARV).
  - The properties reported above are effective 01-01-17 and are subject to change without notice.

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