



# ■ FX<sup>®</sup>-270MF

Carthage Mills' FX-270MF is a woven High-Performance geotextile produced from high-tenacity polypropylene yarns. FX-270MF 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		38.5 x 35.9 kN/m	2640 x 2460 lbs/ft
Wide Width Tensile @ 2% Strain		7.4 x 8.8 kN	504 x 600 lbs/ft
Wide Width Tensile @ 5% Strain		18.6 x 21.0 kN/m	1272 x 1440 lbs/ft
<input type="checkbox"/> <b>Mechanical/Index</b>	ASTM D 4632		
Grab Tensile Strength		1.313 x 1.157 kN	295 x 260 lbs
Grab Tensile Elongation		13% x 12%	
Trapezoid Tear	ASTM D 4533	0.490 x 0.579 kN	110 x 130 lbs
CBR Puncture	ASTM D 6241	4.450 kN	1000 lbs
<input type="checkbox"/> <b>Endurance</b>	ASTM D 4355		
UV Resistance		80% @ 500 hrs	
<input type="checkbox"/> <b>Hydraulics/Filtration</b>	ASTM D 4491		
Permittivity <sup>(1)</sup>		0.6 sec <sup>-1</sup>	
Water Flow Rate <sup>(1)</sup>		1630 lpm/m <sup>2</sup>	40 gpm/ft <sup>2</sup>
Apparent Opening Size (AOS) <sup>(1)</sup>	ASTM D 4751	0.60 mm	30 US Std. Sieve
Pore Size $O_{95}^2$ (Typical)	ASTM D 6767	386 microns	
Pore Size $O_{50}^2$ (Typical)		295 microns	
<input type="checkbox"/> <b>Physical</b>			
Standard Roll Sizes / Packaging / Weight	Measured (Typical)	4.57 m x 91.5 m 418 m <sup>2</sup> 96.6 kg	15 ft x 300 ft 500 yd <sup>2</sup> 213 lbs

NOTES: Mullen Burst Strength ASTM D 3786 is no longer recognized by ASTM D35 on Geosynthetics.

- (1) At the time of manufacturing. Handling, storage and shipping may change these properties.
- (2) Based on 3<sup>rd</sup> Party Testing
  - Unless otherwise stated, all values stated here are Minimum Average Roll Values (MARV).
  - The properties reported above are effective 01-01-18 and are subject to change without notice.

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