



## ■ FX<sup>®</sup>-220MF

Carthage Mills' FX-220MF is a woven High-Performance geotextile produced from high-tenacity polypropylene yarns. FX-220MF 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	39 x 36 kN/m	2640 x 2460 lbs/ft
Wide Width Tensile Ultimate			
Wide Width Elongation		9% x 8%	
Wide Width Tensile @ 2% Strain		7.4 x 8.8 kN/m	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	1.312 x 1.157 kN	295 x 260 lbs
Grab Tensile Strength			
Grab Tensile Elongation		15% x 6%	
Trapezoidal Tear	ASTM D 4533	0.490 x 0.579 kN	110 lbs x 130 lbs
CBR Puncture	ASTM D 6241	4.450 kN	1000 lbs
<input type="checkbox"/> <b>Endurance</b>	ASTM D 4355	80% @ 500 hrs	
UV Resistance			
<input type="checkbox"/> <b>Hydraulics/Filtration</b>	ASTM D 4491	0.60 sec <sup>-1</sup>	
Permittivity <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	0.600 mm	30 US Std. Sieve
<input type="checkbox"/> <b>Physical</b>			
Standard Roll Sizes / Packaging / Weight	Measured (Typical)	4.5 m x 91.4 m 418 m <sup>2</sup> 127 kg	15 ft x 300 ft 500 yd <sup>2</sup> 279 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.

Carthage Mills assumes no liability for the accuracy or completeness of this information or for the ultimate use by the purchaser. Carthage Mills disclaims any and all express, implied, or statutory standards, warranties or guarantees, including without limitation any implied warranty as to merchantability or fitness for a particular purpose or arising from a course of dealing or usage of trade as to any equipment, materials, or information furnished herewith. This document should not be construed as engineering advice.