



■ FX[®]-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[®] 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"/> Mechanical/Performance/Design			
Wide Width Tensile Ultimate	ASTM D 4595	39 x 36 kN/m	2640 x 2460 lbs/ft
Wide Width Tensile @ 5% Strain		18.6 x 21.0 kN/m	1272 x 1440 lbs/ft
<input type="checkbox"/> Mechanical/Index			
Grab Tensile Strength	ASTM D 4632	1.312 x 1.157 kN	295 x 260 lbs
Grab Tensile Elongation		13% x 12%	
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"/> Endurance			
UV Resistance	ASTM D 4355	80% @ 500 hrs	
<input type="checkbox"/> Hydraulics/Filtration			
Permittivity ⁽¹⁾	ASTM D 4491	0.60 sec ⁻¹	
Water Flow Rate ⁽¹⁾		1630 lpm/m ²	40 gpm/ft ²
Apparent Opening Size (AOS) ^(1,2)	ASTM D 4751	0.600 mm	30 US Std. Sieve
<input type="checkbox"/> Physical			
Standard Roll Sizes / Packaging / Weight	Measured (Typical)	4.5 m x 91.4 m 418 m ² 127 kg	15 ft x 300 ft 500 yd ² 279 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 and has been replaced with CBR Puncture ASTM D 6241.

(1) At the time of manufacturing. Handling, storage and shipping may change these properties.

(2) Maximum Average Roll Value

- Unless otherwise stated, all values stated here are Minimum Average Roll Values (MARV).
- The properties reported above are effective 01-01-2024 and are subject to change without notice.

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