



■ FX[®]-770MF

Carthage Mills' FX-770MF is a woven High-Performance/High-Strength geotextile produced from high-tenacity polypropylene yarns. FX-770MF 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	105.1 x 84.0 kN/m	7200 x 5760 lbs/ft
Wide Width Tensile @ 5% Strain		52.5 x 52.5 kN/m	3600 x 3600 lbs/ft
Grab Tensile Strength	ASTM D 4632	2.670 x 2.225 kN	600 x 500 lbs
Grab Tensile Elongation		12 x 6 %	
Trapezoidal Tear	ASTM D 4533	1.113 x 0.890 kN	250 x 200
CBR Puncture	ASTM D 6241	8.455 kN	1900 lbs
<input type="checkbox"/> Endurance			
UV Resistance	ASTM D 4355	80% @ 500 hrs	
<input type="checkbox"/> Hydraulics/Filtration			
Permittivity ⁽¹⁾	ASTM D 4491	0.90 sec ⁻¹	
Water Flow Rate ⁽¹⁾		2648 lpm/m ²	65 gpm/ft ²
Apparent Opening Size (AOS) ^(1,2)	ASTM D 4751	0.85 mm	20 US Std. Sieve
<input type="checkbox"/> Physical			
Standard Roll Sizes / Packaging / Weight	Measured (Typical)	4.57 m x 91.4 m 418 m ² 263 kg	15.0 ft x 300 ft 500 yd ² 580 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 01-01-2026 and are subject to change without notice.

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