



Product Data Sheet

■ FX™-400MF

Carthage Mills’ FX™-400MF is a woven high performance/high strength geotextile of 100% polypropylene yarns. This fabric is constructed with a unique twill weave and a combination of two distinctly different heavy-duty yarns, resulting in an extremely durable fabric with high tensile strengths and superior hydraulic properties. This high performance geotextile is ideal for stabilization and reinforcement applications including roads and embankments over soft soils, wrapped-face retaining walls, and steepened slopes.

PROPERTY	TEST METHOD	DATA			
		METRIC	ENGLISH		
<input type="checkbox"/> Mechanical					
Grab Tensile	ASTM D 4632	2670 x 2336 N	600 x 525 lbs		
Grab Tensile Elongation				20%	
Wide Width Tensile Ultimate	ASTM D 4595	70.0 kN/m	400 lbs/in 4800 lbs/ft		
Wide Width Elongation				9%	
Wide Width Tensile: @ 2% Strain				7.9 x 16.4 kN/m	541 x 1125 lbs/ft
@ 5% Strain				28.2 x 36.6 kN/m	1929 x 2508 lbs/ft
@ 10% Strain	59.5 x 66.0 kN/m	4076 x 4523 lbs/ft			
Mullen Burst	ASTM D 3786	> 8273 kPa ¹	> 1200 psi ¹		
Puncture	ASTM D 4833	890 N	200 lbs		
Trapezoidal Tear	ASTM D 4533	1001 N	225 lbs		
<input type="checkbox"/> Endurance					
UV Resistance	ASTM D 4355	90% @ 500 hrs			
<input type="checkbox"/> Hydraulics / Filtration					
Apparent Opening Size (AOS)	ASTM D 4751	0.425 mm	40 US Std. Sieve		
Percent Open Area	CW-02215	n/a			
Permittivity	ASTM D 4491	0.11 sec ⁻¹			
Permeability		.010 cm/sec			
Flow Rate		570 l/min/m ²	14 gpm/ft ²		
<input type="checkbox"/> Physical / Dimensional					
Mass Per Unit Area	ASTM D 5261	387 g/m ²	11.4 oz/yd ²		
Standard Roll Sizes / Packaging (Special sizes, packaging and fabrication are available.)	Measured (Typical)	5.33 m x 94.18 m 476 m ² 241 kg 34.5 cm diameter	17.1 ft x 300 ft 569 yd ² 531 lbs 13.6 in. diameter		

¹ The Mullen Burst values exceed the capabilities of the machine.

Unless otherwise noted, all properties reported are Minimum Average Roll Values (MARV), and are calculated as the typical minus two standard deviations. Statistically, it yields a 97.7% degree of confidence that any sample taken during quality assurance testing will exceed the value reported.

The properties reported above are effective 02/01/03 and are subject to change without notice.

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