Product Data Sheet

FX™–400/600MF

Carthage Mills' FX™–400/600MF 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.

The FX™–400/600MF high performance geotextile is capable of providing excellent wide width seam strengths when fabricated into custom widths x lengths making it ideal for lagoon closures, and embankments and roadways over extremely soft soils.

PROPERTY	TEST METHOD	DATA	
		METRIC	ENGLISH
☐ **Mechanical**			
Grab Tensile	ASTM D 4632	2670 x 2893 N	600 x 650 lbs
Grab Tensile Elongation		20%	
Wide Width Tensile: Ultimate	ASTM D 4595	70.0 x 105.1 kN/m	400 x 600 lbs/in 4800 x 7200 lbs/ft
Wide Width Elongation		14 x 9%	
Wide Width Tensile: @ 2% Strain		7.0 x 17.5 kN/m	480 x 1200 lb/ft
@ 5% Strain		17.5 x 38.5 kN/m	1200 x 2640 lb/ft
@ 10% Strain		40.2 x 78.8 kN/m	2700 x 5400 lb/ft
Mullen Burst	ASTM D 3786	>8273 kPa[1]	>1200 psi[1]
Puncture	ASTM D 4833	1155 N	260 lbs
Trapezoidal Tear	ASTM D 4533	1110 x 1335 N	250 x 300 lbs
☐ **Endurance**			
UV Resistance	ASTM D 4355	80% @ 500 hrs	
☐ **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	0.04 sec^{-1}	
Permeability		.030 cm/sec	
Flow Rate		810 l/min/m^2	20 gpm/ft^2
☐ **Physical / Dimensional**			
Mass Per Unit Area	ASTM D 5261	525 g/m^2	15.5 oz/yd^2
Standard Roll Sizes / Packaging (Special sizes, packaging and fabrication are available.)	Measured (Typical)	4.57 m x Custom	15.0 ft x Custom

[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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