



## Product Data Sheet

### ■ FX™-40HS

Carthage Mills' FX™-40HS is a multipurpose nonwoven geotextile of 100% polypropylene staple fibers that have been needlepunched and heatset.

**AASHTO M-288-00:** FX™-40HS exceeds the geotextile requirements for *Subsurface Drainage/Class 3* (All soil types), *Separation/Class 3*, and *Stabilization/Class 3*.

PROPERTY	TEST METHOD	DATA	
		METRIC	ENGLISH
<input type="checkbox"/> <b>Mechanical</b>			
Grab Tensile	ASTM D 4632	510 N	115 lbs
Grab Tensile Elongation		50%	
Wide Width Tensile	ASTM D 4595	7.0 kN/m	40 lbs/in
Mullen Burst	ASTM D 3786	1445 kPa	210 psi
Puncture	ASTM D 4833	285 N	65 lbs
Trapezoidal Tear	ASTM D 4533	220 N	50 lbs
<input type="checkbox"/> <b>Endurance</b>			
UV Resistance	ASTM D 4355	70% @ 500 hrs	
<input type="checkbox"/> <b>Hydraulics / Filtration</b>			
Apparent Opening Size (AOS)	ASTM D 4751	0.212 mm	70 US Std. Sieve
Percent Open Area	CW-02215	0%	
Permittivity	ASTM D 4491	2.00 sec <sup>-1</sup>	
Permeability		0.22 cm/sec	
Flow Rate		5700 l/min/m <sup>2</sup>	140 gpm/ft <sup>2</sup>
<input type="checkbox"/> <b>Physical / Dimensional</b>			
Mass Per Unit Area (Typical)	ASTM D 5261	135.6 g/m <sup>2</sup>	4.0 oz/yd <sup>2</sup>
Thickness (Typical)	ASTM D 5199	1.52 mm	60 mils
Standard Roll Sizes / Packaging (Special sizes, packaging and fabrication are available.)	Measured (Typical)	3.81 m x 109.7 m 418 m <sup>2</sup> 65.8 kg	12.5 ft x 360 ft 500 yd <sup>2</sup> 145 lbs
		36.8-43.2 cm diam.	14.5-17 in. diameter
		4.57 m x 109.7 m 501.6 m <sup>2</sup> 77.1 kg	15.0 ft x 360 ft 600 yd <sup>2</sup> 170 lbs
		36.8-43.2 cm diam.	14.5-17 in. diameter

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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