



## ■ FX<sup>®</sup>-1600HSE

Carthage Mills' FX-1600HSE is a nonwoven geotextile designed specifically for the environmental market, is constructed of polypropylene staple fibers which are formed into a random network, needle-punched and heatset for dimensional stability. FX-1600HSE is part of the Carthage [FX<sup>®</sup>-HSE Series](#) of nonwoven geotextiles, is inert to biological degradation and resistant to naturally encountered chemicals, alkalis, and acids.

The Carthage Mills' FX-HSE Series of environmental nonwoven geotextiles designates "Mass Per Unit Area" or "Weight Per Square Yard" as a true Minimum value.

PROPERTY	TEST METHOD	DATA	
		METRIC	ENGLISH
<input type="checkbox"/> <b>Mechanical</b>			
Grab Tensile Strength	ASTM D 4632	1.89 kN	425 lbs
Grab Tensile Elongation		50%	
Trapezoidal Tear	ASTM D 4533	0.690 kN	155 lbs
CBR Puncture	ASTM D 6241	5.34 kN	1200 lbs
<input type="checkbox"/> <b>Endurance</b>			
UV Resistance	ASTM D 4355	80% @ 500 hrs	
<input type="checkbox"/> <b>Hydraulics / Filtration</b>			
Permittivity <sup>(1)</sup>	ASTM D 4491	0.70 sec <sup>-1</sup>	
Permeability <sup>(1)</sup>		0.31 cm/sec	
Water Flow Rate <sup>(1)</sup>		2037 l/min/m <sup>2</sup>	50 g/min/ft <sup>2</sup>
Apparent Opening Size (AOS) <sup>(1,2)</sup>	ASTM D 4751	0.150 mm	100 US Std. Sieve
<input type="checkbox"/> <b>Physical</b>			
Mass Per Unit Area (Minimum)	ASTM D 5261	542 g/m <sup>2</sup>	16.0 oz/yd <sup>2</sup>
Thickness (Typical)	ASTM D 5199	4.4 mm	175 mils
Standard Roll Sizes Packaging Weight	Measured (Typical)	4.5 m x 91 m 418 m <sup>2</sup> 247 kg	15 ft x 300 ft 500 yds <sup>2</sup> 545 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.

- <sup>(1)</sup> At the time of manufacturing. Handling, storage and shipping may change these properties.
- <sup>(2)</sup> Maximum Average Roll Value
  - Unless otherwise stated, all values stated here are Minimum Average Roll Values (MARV).
  - The properties reported above are effective 01-01-26 and are subject to change without notice.

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