



## ■ FX<sup>®</sup>-160HS

Carthage Mills' FX-160HS is a multipurpose nonwoven geotextile made of polypropylene staple fibers which are formed into a random network, needlepunched and heatset for dimensional stability. FX-160HS is part of the Carthage [FX-HS Series](#) of nonwoven geotextiles, is inert to biological degradation and resistant to naturally encountered chemicals, alkalis, and acids.

PROPERTY	TEST METHOD	DATA	
		METRIC	ENGLISH
<input type="checkbox"/> <b>Mechanical</b>			
Grab Tensile Strength	ASTM D 4632	1.69 kN	380 lbs
Grab Tensile Elongation		50%	
Trapezoidal Tear	ASTM D 4533	0.62 kN	140 lbs
CBR Puncture	ASTM D 6241	4.56 kN	1025 lbs
<input type="checkbox"/> <b>Endurance</b>			
UV Resistance	ASTM D 4355	70% @ 500 hrs	
<input type="checkbox"/> <b>Hydraulics / Filtration</b>			
Permittivity <sup>(1)</sup>	ASTM D 4491	0.70 sec <sup>-1</sup>	
Water Flow Rate <sup>(1)</sup>		2037 lpm/m <sup>2</sup>	50 gpm/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 (Typical)	ASTM D 5261	542.4 g/m <sup>2</sup>	16.0 oz/yd <sup>2</sup>
Standard Roll Sizes / Packaging / Weight	Measured (Typical)	3.81 m x 109.7 m 418 m <sup>2</sup> 232 kg	12.5 ft x 360 ft 500 yd <sup>2</sup> 511 lbs
		4.57 m x 54.9 m 209 m <sup>2</sup> 103 kg	15.0 ft x 150 ft 250 yd <sup>2</sup> 228 lbs
		4.57 m x 91.5 m 418 m <sup>2</sup> 210 kg	15.0 ft x 300 ft 500 yd <sup>2</sup> 463 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 01-01-23 and are subject to change without notice.

Carthage Mills assumes no liability for the accuracy or completeness of this information or for the ultimate use by the purchaser. Carthage Mills disclaims any and all express, implied, or statutory standards, warranties or guarantees, including without limitation any implied warranty as to merchantability or fitness for a particular purpose or arising from a course of dealing or usage of trade as to any equipment, materials, or information furnished herewith. This document should not be construed as engineering advice.