



## ■ FX<sup>®</sup>-80HS

Carthage Mills' FX-80HS is a multipurpose nonwoven geotextile made of polypropylene staple fibers which are formed into a random network, needlepunched and heatset for dimensional stability. FX-80HS 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.

**AASHTO M 288-15:** FX-80HS exceeds the geotextile requirements for SEPARATION/CLASS 1 (NONWOVEN), STABILIZATION/CLASS 1 (NONWOVEN) and PERMANENT EROSION CONTROL/CLASS 1 (NONWOVEN – ALL SOIL TYPES).

PROPERTY	TEST METHOD	DATA	
		METRIC	ENGLISH
<input type="checkbox"/> <b>Mechanical</b>			
Grab Tensile Strength	ASTM D 4632	0.91 kN	205 lbs
Grab Tensile Elongation		50%	
Trapezoidal Tear	ASTM D 4533	0.36 kN	80 lbs
CBR Puncture	ASTM D 6241	2.23 kN	500 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	1.35 sec <sup>-1</sup>	
Water Flow Rate <sup>(1)</sup>		3666 lpm/m <sup>2</sup>	90 gpm/ft <sup>2</sup>
Apparent Opening Size (AOS) <sup>(1)</sup>	ASTM D 4751	0.180 mm	80 US Std. Sieve
<input type="checkbox"/> <b>Physical</b>			
Mass Per Unit Area (Typical)	ASTM D 5261	271.2 g/m <sup>2</sup>	8.0 oz/yd <sup>2</sup>
Thickness (Typical)	ASTM D 5199	2.28 mm	90 mils
Standard Roll Sizes / Packaging / Weight	Measured (Typical)	3.81 m x 109.7 m 418 m <sup>2</sup> 121 kg	12.5 ft x 360 ft 500 yd <sup>2</sup> 266 lbs
		4.57 m x 91.5 m 418 m <sup>2</sup> 115 kg	15.0 ft x 300 ft 500 yd <sup>2</sup> 254 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 288-15 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.
- Unless otherwise stated, all values stated here are Minimum Average Roll Values (MARV).
  - The properties reported above are effective 01-01-18 and are subject to change without notice.

» [AASHTO M 288-15: Geotextile Product Selection Guide](#)

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