



## ■ FX<sup>®</sup>-40HS

Carthage Mills' FX-40HS is a multipurpose nonwoven geotextile made of polypropylene staple fibers which are formed into a random network, needlepunched and heatset for dimensional stability. FX-40HS 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	0.445 kN	100 lbs
Grab Tensile Elongation		50%	
Trapezoidal Tear	ASTM D 4533	0.20 kN	45 lbs
CBR Puncture	ASTM D 6241	1.113 kN	250 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	2.00 sec <sup>-1</sup>	
Water Flow Rate <sup>(1)</sup>		5700 lpm/m <sup>2</sup>	140 gpm/ft <sup>2</sup>
Apparent Opening Size (AOS) <sup>(1)</sup>	ASTM D 4751	0.212 mm	70 US Std. Sieve
<input type="checkbox"/> <b>Physical</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	0.89 mm	35 mils
Standard Roll Sizes / Packaging / Weight	Measured (Typical)	3.81 m x 109.7 m 418 m <sup>2</sup> 64 kg	12.5 ft x 360 ft 500 yd <sup>2</sup> 142 lbs
		4.57 m x 109.7 m 501.6 m <sup>2</sup> 76 kg	15.0 ft x 360 ft 600 yd <sup>2</sup> 167 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 12-01-16 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.