



## ■ FX<sup>®</sup>-40HS(C)

Carthage Mills' FX-40HS(C) 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(C) 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%	
Toughness	Grab Tensile x Elongation	22.22 kN	5,000 lbs
Trapezoidal Tear	ASTM D 4533	0.20 kN	45 lbs
CBR Puncture	ASTM D 6241	1.11 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>			
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 502 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 01-01-18 and are subject to change without notice.

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