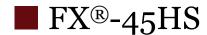


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Geotextiles | Erosion Control | Geogrids | Geomembranes



Carthage Mills' FX-45HS is a multipurpose nonwoven geotextile made of polypropylene staple fibers which are formed into a random network, needlepunched and heatset for dimensional stability. FX-45HS 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:** FX-45HS meets the geotextile requirements of Class 3, ≥50% elongation for Subsurface Drainage, Separation, and Stabilization.

PROPERTY	TEST METHOD	DATA	
		METRIC	ENGLISH
☐ Mechanical			
Grab Tensile Strength	ASTM D 4632	0.53 kN	120 lbs
Grab Tensile Elongation	A3111 D 4032	50%	
Trapezoidal Tear	ASTM D 4533	0.22 kN	50 lbs
CBR Puncture	ASTM D 6241	1.38 kN	310 lbs
☐ Endurance			
UV Resistance	ASTM D 4355	70% @ 500 hrs	
☐ Hydraulics / Filtration			
Permittivity <sup>(1)</sup>	ASTM D 4491	1.70 sec <sup>-1</sup>	
Water Flow Rate (1)	431M D 4431	5,500 lpm/m <sup>2</sup>	135 gpm/ft²
Apparent Opening Size (AOS) (1,2)	ASTM D 4751	0.212 mm	70 US Std. Sieve
□ Physical			
Mass Per Unit Area (Typical)	ASTM D 5261	152.55 g/m²	4.5 oz/yd <sup>2</sup>
Standard Roll Sizes / Packaging / Weight	Measured (Typical)	3.81 m x 109.7 m 418 m <sup>2</sup> 68 kg	12.5 ft x 360 ft 500 yd <sup>2</sup> 150 lbs
		4.57 m x 109.7 m 501.6 m <sup>2</sup> 90 kg	15.0 ft x 360 ft 600 yd² 198 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.

- (1) At the time of manufacturing. Handling, storage and shipping may change these properties.
- (2) Maximum Average Roll Value
- Unless otherwise stated, all values stated here are Minimum Average Roll Values (MARV).
- The properties reported above are effective 01-01-24 and are subject to change without notice.

## » AASHTO M 288: Geotextile Product Selection Guide

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