



## ■ FX<sup>®</sup>-55

Carthage Mills FX-55 is a woven geotextile fabric made of high-tenacity polypropylene yarns woven into a stable network. FX-55 is part of the Carthage [FX<sup>®</sup> Slit-Film Series](#) of woven geotextiles, achieves higher tensile strengths at low elongation (high modulus), is inert to biological degradation, and resistant to naturally encountered chemicals, alkalis, and acids.

**AASHTO M 288:** Carthage FX-55 meets the geotextile requirements of Class 3, <50% elongation for Separation and Stabilization.

PROPERTY	TEST METHOD	DATA	
		METRIC	ENGLISH
<input type="checkbox"/> <b>Mechanical</b>			
Grab Tensile Strength	ASTM D 4632	0.89 kN	200 lbs
Grab Tensile Elongation		15%	
Trapezoidal Tear	ASTM D 4533	0.33 kN	75 lbs
CBR Puncture	ASTM D 6241	3.11 kN	700 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	0.05 sec <sup>-1</sup>	
Water Flow Rate <sup>(1)</sup>		163 l/min/m <sup>2</sup>	4 gpm/ft <sup>2</sup>
Apparent Opening Size (AOS) <sup>(1)</sup>	ASTM D 4751	0.425 mm	40 US Std. Sieve
<input type="checkbox"/> <b>Physical</b>			
Standard Roll Sizes / Packaging / Weight	Measured (Typical)	3.8 m x 131.8 m 501.7 m <sup>2</sup> 82 kg	12.5 ft x 432 ft 600 yd <sup>2</sup> 180 lbs
		4.57 m x 109.7 m 501.7 m <sup>2</sup> 82.5 kg	15.0 ft x 360 ft 600 yd <sup>2</sup> 182 lbs
		5.33 m x 94.18 m 501.7 m <sup>2</sup> 83.9 kg	17.5 ft x 309 ft 600 yd <sup>2</sup> 185 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.
- Unless otherwise stated, all values stated here are Minimum Average Roll Values (MARV).
  - The properties reported above are effective 12-01-22 and are subject to change without notice.

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

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