



## ■ Carthage 6%™

Carthage 6% is a woven filtration geotextile made of high-tenacity, monofilament polypropylene yarns which are woven into a stable network such that they retain their relative position and then calendered. Carthage 6% is part of the [Carthage % Open Area Series](#) of woven monofilament filtration geotextiles, is inert to biological degradation and resistant to naturally encountered chemicals, alkalis, and acids.

**AASHTO M 288:** Carthage 6% meets the geotextile requirements of Classes 2 and 3, <50% elongation (Percent 'in-situ' soil passing 0.075 mm: Both 15-50% and >50%) for Subsurface Drainage; and Class 2, <50% elongation (Percent 'in-situ' soil passing 0.075 mm: Both 15-50% and >50%) for Permanent Erosion Control.

PROPERTY	TEST METHOD	DATA	
		METRIC	ENGLISH
<input type="checkbox"/> <b>Mechanical</b>			
Grab Tensile Strength	ASTM D 4632	1.65 x 1.11 kN	370 x 250 lbs
Grab Tensile Elongation		15%	
Trapezoidal Tear	ASTM D 4533	0.45 x 0.27 kN	100 x 60 lbs
CBR Puncture	ASTM D 6241	4.23 kN	950 lbs
<input type="checkbox"/> <b>Endurance</b>			
UV Resistance	ASTM D 4355	90% @ 500 hrs	
<input type="checkbox"/> <b>Hydraulics / Filtration</b>			
Permittivity <sup>(1)</sup>	ASTM D 4491	0.28 sec <sup>-1</sup>	
Water Flow Rate <sup>(1)</sup>		733 lpm/m <sup>2</sup>	18 gpm/ft <sup>2</sup>
Percent Open Area	CW-02215	4-6%	
Apparent Opening Size (AOS) <sup>(1) (2)</sup>	ASTM D 4751	0.212 mm	70 US Std. Sieve
<input type="checkbox"/> <b>Physical</b>			
Standard Roll Sizes / Packaging / Weight (Custom fabrication and packaging are available.)	Measured (Typical)	1.83 m x 91.44 m 167.2 m <sup>2</sup> 38.5 kg	6.0 ft x 300 ft 200 yd <sup>2</sup> 85 lbs
		3.65 m x 91.44 m 334.4 m <sup>2</sup> 78.5 kg	12.0 ft x 300 ft 400 yd <sup>2</sup> 173 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.

<sup>(2)</sup> AOS, typically referred to as a MARV, is actually reported as a MAXIMUM allowable opening when in English US Sieve units; or as the SMALLEST allowable opening when in Metric units (mm).

- Unless otherwise stated, all values stated here are Minimum Average Roll Values (MARV).
- The properties reported above are effective 01-01-2023 and are subject to change without notice.

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

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