



# Carthage 30%™

Carthage 30% 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. Carthage 30% 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.

PROPERTY	TEST METHOD	DATA	
		MARV	TYPICAL
<b>□ Mechanical</b>			
Grab Tensile Strength	ASTM D 4632	350 x 280 lbs 1.56 x 1.25 kN	370 x 355 lbs 1.64 x 1.57 kN
Grab Tensile Elongation		30% x 18%	37% x 24%
Trapezoidal Tear	ASTM D 4533	100 x 98 lbs 0.44 x 0.43 kN	118 x 127 lbs 0.52 x 0.56 kN
CBR Puncture	ASTM D 6241	870 lbs 3.86 kN	-
<b>□ Endurance</b>			
UV Resistance	ASTM D 4355	90% @ 500 hrs	90% @ 500 hrs
<b>□ Hydraulics / Filtration</b>			
Permittivity <sup>(1)</sup>	ASTM D 4491	4.0 sec <sup>-1</sup>	7.3 sec <sup>-1</sup>
Water Flow Rate <sup>(1)</sup>		300 g/pm/ft <sup>2</sup> 12,223 l/min/m <sup>2</sup>	550 g/pm/ft <sup>2</sup> 22,410 l/min/m <sup>2</sup>
Percent Open Area <sup>(3)</sup>	CW-02215	20 - 30%	
Apparent Opening Size (AOS) <sup>(1) (2)</sup>	ASTM D 4751	30 US Std. Sieve 0.60 mm	30 US Std. Sieve 0.60 mm
<b>□ Physical</b>		<b>METRIC</b>	<b>ENGLISH</b>
Standard Roll Sizes / Packaging / Weight (Custom fabrication and packaging are available.)	Measured (Typical)	3.65 m x 91.44 m 334.4 m <sup>2</sup> 71.214 kg	12.0 ft x 300 ft 400 yd <sup>2</sup> 157 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) 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).
- (3) Typical Values
  - 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.

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