



■ Carthage 3%MF™

Carthage 3%MF is a woven filtration geotextile of 100% high-tenacity, monofilament and fibrillated polypropylene yarns which are woven into a stable network such that they retain their relative position. Carthage 3%MF 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	
		METRIC	ENGLISH
<input type="checkbox"/> Mechanical			
Grab Tensile Strength	ASTM D 4632	1.67 x 1.67 kN	375 x 375 lbs
Grab Tensile Elongation		15 x 7%	
Trapezoidal Tear	ASTM D 4533	0.53 x 0.53 kN	120 x 120 lbs
CBR Puncture	ASTM D 6241	5.34 kN	1200 lbs
<input type="checkbox"/> Endurance			
UV Resistance	ASTM D 4355	70% @ 500 hrs	
<input type="checkbox"/> Hydraulics / Filtration			
Permittivity ⁽¹⁾	ASTM D 4491	0.20 sec ⁻¹	
Water Flow Rate ⁽¹⁾		611 lpm/m ²	15 gpm/ft ²
Percent Open Area	CW-02215	3%	
Apparent Opening Size (AOS) ^{(1) (2)}	ASTM D 4751	0.300 mm	50 US Std. Sieve
<input type="checkbox"/> Physical			
Standard Roll Sizes / Packaging / Weight (Custom fabrication and packaging are available.)	Measured (Typical)	4.57 m x 91.44 m 418 m ² 127.0 kg	15.0 ft x 300 ft 500 yd ² 280 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).

- 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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