



■ Carthage 15%™

Carthage 15% is a woven filtration geotextile of 100% high-tenacity, monofilament polypropylene yarns which are woven into a stable network such that they retain their relative position. Carthage 15% 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	1.62 x 0.89 kN	365 x 200 lbs
Grab Tensile Elongation		10%	
Wide Width Tensile Strength	ASTM D 4595	35.03 x 24.52 kN/m	200 x 140 lbs/in 2400 x 1680 lbs/ft
Trapezoidal Tear	ASTM D 4533	0.51 x 0.33 kN	115 x 75 lbs
CBR Puncture	ASTM D 6241	3.00 kN	675 lbs
<input type="checkbox"/> Endurance			
UV Resistance	ASTM D 4355	90% @ 500 hrs	
<input type="checkbox"/> Hydraulics / Filtration			
Permittivity ⁽¹⁾	ASTM D 4491	2.10 sec ⁻¹	
Water Flow Rate ⁽¹⁾		5907 lpm/m ²	145 gpm/ft ²
Percent Open Area	CW-02215	10-15%	
Apparent Opening Size (AOS) ⁽¹⁾	ASTM D 4751	0.425 mm	40 US Std. Sieve
<input type="checkbox"/> Physical			
Standard Roll Sizes / Packaging / Weight (Custom fabrication and packaging are available.)	Measured (Typical)	3.65 m x 91.44 m 334.4 m ² 80.74 kg	12.0 ft x 300 ft 400 yd ² 178 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 288-06 and has been replaced with CBR Puncture ASTM D 6241.

- ⁽¹⁾ 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 02-03-14 and are subject to change without notice.

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