



## ■ 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<br>1.56 x 1.25 kN                         | 370 x 355 lbs<br>1.64 x 1.57 kN                         |
| Grab Tensile Elongation   |                       | 30% x 18%   | 37% x 24%   |
| Trapezoidal Tear  | ASTM D 4533           | 100 x 98 lbs<br>0.44 x 0.43 kN                          | 118 x 127 lbs<br>0.52 x 0.56 kN                         |
| CBR Puncture  | ASTM D 6241           | 870 lbs<br>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><br>12,223 l/min/m <sup>2</sup> | 550 g/pm/ft <sup>2</sup><br>22,410 l/min/m <sup>2</sup> |
| Percent Open Area   | CW-02215              | 20 - 30%  |   |
| Apparent Opening Size (AOS) <sup>(1) (2)</sup>  | ASTM D 4751           | 30 US Std. Sieve<br>0.60 mm                             | 30 US Std. Sieve<br>0.60 mm                             |
| <b>□ Physical</b>   |                       | <b>METRIC</b>   | <b>ENGLISH</b>  |
| Standard Roll Sizes / Packaging / Weight<br>(Custom fabrication and packaging are available.) | Measured<br>(Typical) | 3.65 m x 91.44 m<br>334.4 m <sup>2</sup><br>71.214 kg   | 12.0 ft x 300 ft<br>400 yd <sup>2</sup><br>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).

- Unless otherwise stated, all values stated here are Minimum Average Roll Values (MARV).
- The properties reported above are effective 01-01-2022 and are subject to change without notice.

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