



## FX<sup>®</sup>-MF and TF High-Performance Woven Geotextiles

Carthage Mills' FX- MF and TF Series of High-Performance geotextiles are produced from 100% high-tenacity polypropylene yarns. The Carthage [FX<sup>®</sup> High-Performance Series](#) of woven geotextiles, is inert to biological degradation, and resistant to naturally encountered chemicals, alkalis and acids.

Note: The listing below is a sampling of available products in this Series of High-Performance Geotextiles. For more information and/or a complete listing of all the products in this Series, please call or visit our website.

| PROPERTY   | ASTM TEST             | UNIT                         | FX <sup>®</sup> -200MF | FX <sup>®</sup> -270MF | FX <sup>®</sup> -270TF | FX <sup>®</sup> -300MF | FX <sup>®</sup> -370MF | FX <sup>®</sup> -375MF | FX <sup>®</sup> -570MF <sup>(1)</sup> | FX <sup>®</sup> -400TF |
|--|-----------------------|------------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|---------------------------------------|------------------------|
| <input type="checkbox"/> <b>Mechanical/Performance</b> |                       |                              |                        |                        |                        |                        |                        |                        |                                       |                        |
| Wide Width Tensile Ultimate                            | D 4595                | lbs/ft                       | 2700                   | 2640 x 2460            | 3179 x 2711            | 3600                   | 3600 x 3240            | 3600 x 3300            | 4800                                  | 4800                   |
| Wide Width Elongation @ Ult.                           |                       | %                            | NP                     | NP                     | 11.4 x 7.9             | NP                     | NP                     | NP                     | NP                                    | 10                     |
| Wide Width Tensile @ 2%                                |                       | lbs/ft                       | 500 x 800              | 504 x 600              | 287 x 871              | 480 x 420              | 540                    | NP                     | 960 x 1320                            | NP                     |
| Wide Width Tensile @ 5%                                |                       |                              | 1100 x 1700            | 1272 x 1440            | 1085 x 1812            | 1392 x 1740            | 1500 x 1560            | 1560 x 1560            | 2400 x 2700                           | NP                     |
| Wide Width Tensile @ 10%                               |                       |                              | 2000 x 2800            | NP                     | 2700 x -               | NP                     | NP                     | NP                     | 4800                                  | NP                     |
| <input type="checkbox"/> <b>Mechanical/Index</b>       |                       |                              |                        |                        |                        |                        |                        |                        |                                       |                        |
| Grab Tensile Strength                                  | D 4632                | lbs                          | 320                    | 295 x 260              | 350 x 350              | 450 x 350              | 450 x 320              | NP                     | 500 x 475                             | 550                    |
| Grab Tensile Elongation                                |                       | %                            | 15                     | 13% x 12%              | 20 x 15                | 15 x 6                 | 12 x 10                | NP                     | 11 x 4                                | 20                     |
| Trapezoidal Tear                                       | D 4533                | lbs                          | 125                    | 110 x 130              | 120                    | 180 x 140              | 150 x 160              | NP                     | 180                                   | 180                    |
| CBR Puncture   | D 6241                |                              | 1400                   | 1000                   | 1000                   | 1600                   | 1300                   | NP                     | 2000                                  | 1600                   |
| <input type="checkbox"/> <b>Endurance</b>              |                       |                              |                        |                        |                        |                        |                        |                        |                                       |                        |
| UV Resistance  | D 4355                | % @ 500 hrs                  | 90                     | 80                     | 80                     | 80                     | 80                     | 80                     | 80                                    | 80                     |
| <input type="checkbox"/> <b>Hydraulics/Filtration</b>  |                       |                              |                        |                        |                        |                        |                        |                        |                                       |                        |
| Permittivity   | D 4491                | sec <sup>-1</sup>            | 0.70                   | 0.60                   | 0.15                   | 0.52                   | 0.90                   | 0.9                    | 0.90                                  | 0.1                    |
| Water Flow Rate  |                       | gpm/ft <sup>2</sup>          | 50                     | 40                     | 11                     | 40                     | 40                     | 70                     | 70                                    | 10                     |
| Apparent Opening Size (AOS)                            | D 4751                | US Std Sieve                 | 40                     | 30                     | 40                     | 30                     | 40                     | 30                     | 30                                    | 40                     |
| <input type="checkbox"/> <b>Physical</b>               |                       |                              |                        |                        |                        |                        |                        |                        |                                       |                        |
| Standard Roll Sizes<br>Packaging<br>Weight             | Measured<br>(Typical) | ft<br>yd <sup>2</sup><br>lbs | 15 x 300<br>500<br>275 | 15 x 300<br>500<br>213 | 15 x 300<br>500<br>352 | 15 x 300<br>500<br>325 | 15 x 300<br>500<br>290 | 15 x 300<br>500<br>320 | 15 x 300<br>500<br>389                | 15 x 300<br>500<br>357 |
|  |                       | ft<br>yd <sup>2</sup><br>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> Formerly FX-400MF

- Unless otherwise stated, all values stated here are Minimum Average Roll Values (MARV).
- The properties reported above are effective 07-01-19 and are subject to change without notice.

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