



■ FX[®]-100HS(C)

Carthage Mills' FX-100HS(C) is a multipurpose nonwoven geotextile made of polypropylene staple fibers which are formed into a random network, needlepunched and heatset for dimensional stability. FX-100HS is part of the Carthage [FX-HS Series](#) of nonwoven 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 | 1.11 kN | 250 lbs |
| Grab Tensile Elongation | | 50% | |
| Trapezoidal Tear | ASTM D 4533 | 0.40 kN | 90 lbs |
| CBR Puncture | ASTM D 6241 | 2.67 kN | 600 lbs |
| <input type="checkbox"/> Endurance | | | |
| UV Resistance | ASTM D 4355 | 70% @ 500 hrs | |
| <input type="checkbox"/> Hydraulics / Filtration | | | |
| Permittivity ⁽¹⁾ | ASTM D 4491 | 0.70 sec ⁻¹ | |
| Water Flow Rate ⁽¹⁾ | | 2648 lpm/m ² | 65 gpm/ft ² |
| Apparent Opening Size (AOS) ^(1,2) | ASTM D 4751 | 0.212 mm | 70 US Std. Sieve |
| <input type="checkbox"/> Physical | | | |
| Mass Per Unit Area | ASTM D 5261 | 322 g/m ² | 9.5 oz/yd ² |
| Standard Roll Sizes / Packaging / Weight | Measured (Typical) | 4.57 m x 91.5 m 418 m ² 149.6 kg | 15.0 ft x 300 ft 500 yd ² 330 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⁾ Maximum Average Roll Value
 - Unless otherwise stated, all values stated here are Minimum Average Roll Values (MARV).
 - The properties reported above are effective 01-01-24 and are subject to change without notice.

Carthage Mills assumes no liability for the accuracy or completeness of this information or for the ultimate use by the purchaser. Carthage Mills disclaims any and all express, implied, or statutory standards, warranties or guarantees, including without limitation any implied warranty as to merchantability or fitness for a particular purpose or arising from a course of dealing or usage of trade as to any equipment, materials, or information furnished herewith. This document should not be construed as engineering advice.