



■ FX[®]-465MF

Carthage Mills' FX[®]-465MF is a woven high-performance/high-strength geotextile produced from 100% high-tenacity polypropylene yarns. Constructed with a unique twill weave, the FX[®]-465MF provides long-term separation, filtration, and the higher tensile strengths required for soil stabilization and reinforcement applications.

The high tensile modulus and durability of Carthage Mills' high-performance geotextiles make them ideal for many demanding soil separation/reinforcement applications including: roadway and railway construction, embankments over soft soils, waste confinement, wrapped-face retaining walls, and steepened slopes. They are inert to biological degradation, and resistant to naturally encountered chemicals, alkalis and acids.

| PROPERTY | TEST METHOD | DATA | |
|---|--------------------|---|--|
| | | METRIC | ENGLISH |
| <input type="checkbox"/> Mechanical/Performance/Design | ASTM D 4595 | | |
| Wide Width Tensile Ultimate | | 52.5 x 47.3 kN/m | 300 x 270 lbs/in 3600 x 3240 lbs/ft |
| Wide Width Elongation | | 15% | |
| Wide Width Tensile @ 2% Strain | | 8.8 x 8.8 kN/m | 50 x 50 lbs/in |
| Wide Width Tensile @ 5% Strain | | 21.9 x 21.9 kN/m | 125 x 125 lbs/in |
| Wide Width Tensile @ 10% Strain | | 52.5 x 47.3 kN/m | 300 x 270 lbs/in |
| <input type="checkbox"/> Mechanical/Index | ASTM D 4632 | | |
| Grab Tensile Strength | | 2.00 x 1.56 kN | 450 x 350 lbs |
| Grab Tensile Elongation | | 15% x 6% | |
| Mullen Burst | ASTM D 3786 | 6894 kPa | 1000 psi |
| Trapezoidal Tear | ASTM D 4533 | 0.62 x 0.78 kN | 140 lbs x 175 lbs |
| Puncture | ASTM D 4833 | 0.78 kN | 175 lbs |
| CBR Puncture | ASTM D 6241 | NP | NP |
| <input type="checkbox"/> Endurance | ASTM D 4355 | | |
| UV Resistance | | 80% @ 500 hrs | |
| <input type="checkbox"/> Hydraulics/Filtration | ASTM D 4491 | | |
| Permittivity | | 0.26 sec ⁻¹ | |
| Water Flow Rate | | 814.9 lpm/m ² | 20 gpm/ft ² |
| Permeability | | 0.025 cm/sec | |
| Apparent Opening Size (AOS) | ASTM D 4751 | 0.425 mm | 40 US Std. Sieve |
| <input type="checkbox"/> Physical | ASTM D 5261 | | |
| Mass Per Unit Area (Typical) | | 342.4 g/m ² | 10.1 oz/yd ² |
| Standard Roll Sizes / Packaging / Weight | Measured (Typical) | 4.57 m x 91.4 m 418 m ² 156.0 kg | 15.0 ft x 300 ft 500 yd ² 344 lbs |

- Unless otherwise stated, all values stated here are Minimum Average Roll Values (MARV), are calculated as the Typical minus two standard deviations and are based on a 97.7% confidence level.
- The properties reported above are effective 01/01/10 and are subject to change without notice.

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