

PRODUCT SPECIFICATIONS

Nilex Nonwoven Civil Geotextile Comparison



Minimum Average Roll Values (MARV)

| Property | Test | Unit | Nilex 4504 (White) | Nilex 4510 | Nilex 4512 | Nilex 4516 | Nilex 4535 | Nilex 4545 | Nilex 4546 | Nilex 4547 | Nilex 4551 | Nilex 4552 | Nilex 4553 |
|-----------------------|-------------|---|-------------------------|------------------------|------------------------|------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| Mechanical | | | | | | | | | | | | | |
| Grab Tensile Strength | ASTM D-4632 | N (lb) | 445 (100) | 1112 (250) | 1334 (300) | 1690 (380) | 356 (80) | 400 (90) | 534 (120) | 445 (100) | 712 (160) | 801 (180) | 912 (205) |
| Grab Elongation | ASTM D-4632 | % | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
| CBR Puncture* | ASTM D-6241 | N (lb) | --- | 3114 (700) | 3781 (850) | 4804 (1080) | 934 (210) | 1157 (260) | 1379 (310) | 1334 (300) | 1824 (410) | 2113 (475) | 2335 (525) |
| Trapezoidal Tear | ASTM D-4533 | N (lb) | 222 (50) | 445 (100) | 512 (115) | 645 (145) | 133 (30) | 178 (40) | 222 (50) | 222 (50) | 267 (60) | 334 (75) | 356 (80) |
| Hydraulic | | | | | | | | | | | | | |
| Apparent Opening Size | ASTM D-4751 | mm (US Sieve) | 0.212 (#70) | 0.150 (#100) | 0.150 (#100) | 0.150 (#100) | 0.300 (#50) | 0.250 (#60) | 0.212 (#70) | 0.212 (#70) | 0.212 (#70) | 0.212 (#70) | 0.180 (#80) |
| Permittivity | ASTM D-4491 | sec ⁻¹ | 2 | 1.2 | 1.0 | 0.7 | 2.2 | 2.0 | 1.7 | 2.0 | 1.5 | 1.4 | 1.5 |
| Water Flow Rate | ASTM D-4491 | l/m/m ² (gpm/ft ²) | 5689 (140) | 3260 (80) | 3056 (75) | 2037 (50) | 6112 (150) | 6112 (150) | 5704 (140) | 5704 (140) | 4482 (110) | 4278 (105) | 4482 (110) |
| Endurance | | | | | | | | | | | | | |
| UV Resistance | ASTM D-4355 | % @ 500 hrs | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 |
| Packaging | | | | | | | | | | | | | |
| Roll Size | Measured | m (ft) | 5.40 x 100 (17.7 x 328) | 4.57 x 91.5 (15 x 300) | 4.57 x 91.5 (15 x 300) | 4.57 x 91.5 (15 x 300) | 3.81 x 109.8 (12.5 x 360) | 3.81 x 109.8 (12.5 x 360) | 3.81 x 109.8 (12.5 x 360) | 3.81 x 109.8 (12.5 x 360) | 3.81 x 109.8 (12.5 x 360) | 3.81 x 109.8 (12.5 x 360) | 3.81 x 109.8 (12.5 x 360) |
| | | | | | | | 4.57 x 109.8 (15 x 360) | 4.57 x 109.8 (15 x 360) | 4.57 x 109.8 (15 x 360) | 4.57 x 109.8 (15 x 360) | 4.57 x 91.5 (15 x 300) | 4.57 x 91.5 (15 x 300) | 4.57 x 91.5 (15 x 300) |

*Note: Mullen Burst ASTM D3786 and Puncture Strength ASTM D4833 are no longer recognized by ASTM Committee D35 as an acceptable geotextile test method. Puncture Strength ASTM 4833 has been replaced with the Static (CBR) Puncture ASTM D6241. For more information, refer to the ASTM website at www.astm.org

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