



## Material Property Data Sheet

### CONTECH C-46NW Nonwoven Geotextile

CONTECH® C-46NW is a polypropylene, staple fiber, calendered, needle punched, nonwoven. The fibers are needled to form a stable network that retain dimensional stability relative to each other. The geotextile is resistant to ultraviolet degradation and to biological and chemical environments normally found in soils. CONTECH C-46NW meets the requirements for a Paving Fabric per AASHTO M288-96. CONTECH C-46NW conforms to the property values listed below which have been derived from quality control.

| PROPERTY                                      | TEST METHOD | MINIMUM AVERAGE ROLL VALUES <sup>2</sup> |                       |
|---|-------------|--|-----------------------|
|   |             | <i>English</i>                           | <i>Metric</i>         |
| <b><i>Physical</i></b>                        |             |  |                       |
| Weight  | ASTM D4533  | 4.1 oz/sy                                | 139 g/m <sub>2</sub>  |
| <b><i>Mechanical</i></b>                      |             |  |                       |
| Grab Tensile Strength                         | ASTM D4632  | 101 lbs                                  | 449 N                 |
| Grab Elongation                               | ASTM D4632  | 50 %                                     | 50 %                  |
| Puncture Strength                             | ASTM D4833  | 60 lbs.                                  | 267 N                 |
| Mullen Burst                                  | ASTM D3786  | 200 psi                                  | 1379 kPa              |
| Trapezoidal Tear                              | ASTM D4533  | 45 lbs.                                  | 200 N                 |
| <b><i>Hydraulic</i></b>                       |             |  |                       |
| Apparent Opening Size (AOS)                   | ASTM D4751  | N/A                                      | N/A                   |
| Permittivity                                  | ASTM D4491  | N/A                                      | N/A                   |
| Water Flow Rate                               | ASTM D4491  | N/A                                      | N/A                   |
| Asphalt Retention                             |             | 0.2 gal-sy                               | 0.91 L/M <sup>2</sup> |
| Melting Point                                 |             | 300° F                                   | 149° C                |
| <b><i>Endurance</i></b>                       |             |  |                       |
| UV Resistance<br>(% retained after 500 hours) | ASTM D4355  | 70%                                      | 70%                   |

**NOTES:**

- <sup>1</sup> The property values listed above are effective 3/01/04 and are subject to change without notice.
- <sup>2</sup> Values shown are in weaker principal direction. Minimum average rolls values are calculated as the typical minus two standard deviations. Statistically, it yields a 97.5% degree of confidence that any samples taken from quality assurance testing will exceed the value reported.