

Mirafi[®] 140N

Mirafi[®] 140N is a nonwoven geotextile composed of polypropylene fibers, which are formed into a stable network such that the fibers retain their relative position. Mirafi[®] 140N is inert to biological degradation and resists naturally encountered chemicals, alkalis, and acids.

| Mechanical Properties | Test Method | Unit | Minimum Average Roll Value | |
|--|-------------|--|----------------------------|-----------|
| | | | MD | CD |
| Grab Tensile Strength | ASTM D 4632 | N (lbs) | 534 (120) | 534 (120) |
| Grab Tensile Elongation | ASTM D 4632 | % | 50 | 50 |
| Trapezoid Tear Strength | ASTM D 4533 | N (lbs) | 223 (50) | 223 (50) |
| Mullen Burst Strength | ASTM D 3786 | kPa (psi) | 1550 (225) | |
| Puncture Strength ¹ | ASTM D 4833 | N (lbs) | 289 (65) | |
| CBR Puncture Strength | ASTM D 6241 | N (lbs) | 1335 (300) | |
| Apparent Opening Size (AOS) ² | ASTM D 4751 | mm (U.S. Sieve) | 0.212 (70) | |
| Permittivity | ASTM D 4491 | sec ⁻¹ | 1.7 | |
| Flow Rate | ASTM D 4491 | l/min/m ² (gal/min/ft ²) | 5500 (135) | |
| UV Resistance (at 500 hours) | ASTM D 4355 | % strength retained | 70 | |

¹ ASTM D 4833 has been replaced with ASTM D 6241

² ASTM D 4751: AOS is a Maximum Opening Diameter Value

| Physical Properties | Test Method | Unit | Typical Value | |
|-------------------------------------|-------------|--|---------------------------|-------------------------|
| Weight | ASTM D 5261 | g/m ² (oz/yd ²) | 163 (4.8) | |
| Thickness | ASTM D 5199 | mm (mils) | 1.0 (40) | |
| Roll Dimensions (width x length) | -- | m (ft) | 3.8 x 110 (12.5 x 360) | 4.5 x 110 (15 x 360) |
| Roll Area | -- | m ² (yd ²) | 418 (500) | 502 (600) |
| Estimated Roll Weight | -- | kg (lb) | 74 (164) | 89 (197) |

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