

Mirafi[®] HP270







Mirafi[®] HP270 geotextile is composed of high-tenacity polypropylene yarns, which are woven into a network such that the yarns retain their relative position. Mirafi[®] HP270 geotextile is inert to biological degradation and resistant to naturally encountered chemicals, alkalis, and acids.

TenCate Geosynthetics Americas Laboratories are accredited by <u>a2La</u> (The American Association for Laboratory Accreditation) and Geosynthetic Accreditation Institute – Laboratory Accreditation Program (<u>GAI-LAP</u>). <u>NTPEP Number: GTX-2012-01-044</u>

| Mechanical Properties | Mechanical Properties Test Method Unit | | Minimum Average Roll Value | |
|---------------------------------|--|--|-------------------------------|-------------|
| | | J | MD | CD |
| Tensile Strength (at ultimate) | ASTM D4595 | lbs/ft (kN/m) | 2640 (38.5) | 2460 (35.9) |
| Tensile Strength (at 2% strain) | ASTM D4595 | lbs/ft (kN/m) | 480 (7.0) | 588 (8.6) |
| Tensile Strength (at 5% strain) | ASTM D4595 | lbs/ft (kN/m) | 1212 (17.7) | 1356 (19.8) |
| Factory Sewn Seam | ASTM D4884 | lbs/ft (kN/m) | 1250 (18.4) | |
| Flow Rate | ASTM D4491 | gal/min/ft ² (I/min/m ²) | 50 (2037) | |
| Permeability | ASTM D4491 | cm/sec | 0.04 | |
| Permittivity | ASTM D4491 | sec ⁻¹ | 0.70 | |
| Apparent Opening Size (AOS) 1 | ASTM D4751 | U.S. Sieve (mm) | 30 (0.60) | |
| UV Resistance (at 500 hours) | ASTM D4355 | % strength retained | 80 | |

¹ ASTM D4751: AOS is a Maximum Opening Diameter Value NOTE: To obtain Secant Modulus, divide tensile strength by the appropriate strain level (i.e. Secant Modulus at 5%=1212/0.05=24240 lbs/ft)

| Physical Properties | Unit | Typical Value ² | |
|----------------------------------|----------|----------------------------|--|
| Roll Dimensions (width x length) | ft (m) | 15 x 300 (4.5 x 91) | |
| Roll Area | yd² (m²) | 500 (418) | |

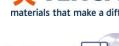
Factory Sewn Seam (ASTM D4884) and UV Resistance (ASTM D4355) are not covered by our current A2LA accreditation.

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² ASTM D4439 Standard Terminology for Geosynthetics: typical value, *n*—for geosynthetics, the mean value calculated from documented manufacturing quality control test results for a defined population obtained from one test method associated with on specific property.