


Mirafi® RS280i

Mirafi® RS280i is a revolutionary geosynthetic with orange identification yarns and super high-tenacity polypropylene filaments formed into an innovative weave to provide superior reinforcement strength and soil interaction integrated with high water flow and soil retention capabilities.

TenCate Geosynthetics Americas is accredited by Geosynthetic Accreditation Institute – Laboratory Accreditation Program ([GAI-LAP](#)).

| MECHANICAL PROPERTIES | TEST METHOD | UNIT | MINIMUM AVERAGE ROLL VALUE | |
|--------------------------------------|-------------|-------------------------------------------------|----------------------------|-------------|
| | | | MD | CD |
| Tensile Strength (at 2% strain) | ASTM D4595 | lbs/ft (kN/m) | 600 (8.8) | 660 (9.6) |
| Tensile Strength (at 5% strain) | ASTM D4595 | lbs/ft (kN/m) | 1620 (23.6) | 1632 (23.8) |
| Grab Tensile Strength | ASTM D4632 | lbs (N) | 450 (2003) | 320 (1424) |
| Grab Tensile Elongation | ASTM D4632 | % | 12 | 10 |
| Trapezoid Tear Strength | ASTM D4533 | lbs (N) | 150 (668) | 160 (712) |
| CBR Puncture Strength | ASTM D6241 | lbs (N) | 1300 (5785) | |
| MINIMUM ROLL VALUE | | | | |
| Flow Rate | ASTM D4491 | gal/min/ft ² (l/min/m ²) | 70 (2852) | |
| Permittivity | ASTM D4491 | sec ⁻¹ | 0.9 | |
| TYPICAL ROLL VALUE | | | | |
| Pore Size O ₉₅ | ASTM D6767 | microns | 360 | |
| Pore Size O ₅₀ | ASTM D6767 | microns | 220 | |
| MAXIMUM OPENING SIZE | | | | |
| Apparent Opening Size (AOS) | ASTM D4751 | U.S. Sieve (mm) | 40 (0.425) | |
| MINIMUM TEST VALUE | | | | |
| UV Resistance (at 500 hours) | ASTM D4355 | % strength retained | 90 | |
| Interaction Coefficient ² | ASTM D6706 | -- | 0.89 | |
| Factory Sewn Seam | ASTM D4884 | lbs/ft (kN/m) | 2400 (35.0) | |

| PHYSICAL PROPERTIES | UNIT | Roll Size |
|----------------------------------|-----------------------------------|-------------------------------------------------------------------------------------|
| Roll Dimensions (width x length) | ft (m) | 15 x 300 (4.5 x 91) 17 x 300 (5.2 x 91.4) |
| Roll Area | yd ² (m ²) | 500 (418) 567 (474) |
| Estimated Roll Weight | lbs (kgs) | 270 (122.5) |
| Label Roll Color | |  |

¹ Minimum Roll Value

² Interaction Coefficient value is for sand or gravel based on testing conducted by SGI Testing Services.

U.S. Patent: 9,404,233 & 10,844,520

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