



Mirafi[®] RS580i

This is to certify that Mirafi[®] RS580i is a revolutionary geotextile created from 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.

| Mechanical Properties | Test Method | Unit | Minimum Average Roll Value | |
|--|-------------|--|----------------------------|--------------|
| | | | MD | CD |
| STRENGTH | | | | |
| Tensile Modulus @ 2% strain | ASTM D 4595 | kN/m (lbs/ft) | 350 (24000) | 1313 (90000) |
| HYDRAULIC | | | | |
| Flow Rate | ASTM D 4491 | l/min/m ² (gal/min/ft ²) | 3056 (75) | |
| Permittivity | ASTM D 4491 | sec ⁻¹ | 1.0 | |
| SOIL RETENTION | | | | |
| Apparent Opening Size (AOS) ¹ | ASTM D 4751 | mm (U.S. Sieve) | 0.43 (40) | |
| SOIL INTERACTION | | | | |
| Interaction Coefficient ² | ASTM D 5321 | -- | 0.9 | |
| Factory Seam Strength | ASTM D 4884 | kN/m (lbs/ft) | 43.8 (3000) | |
| UV Resistance (at 500 hours) | ASTM D 4355 | % strength retained | 80 | |

¹ ASTM D 4751: AOS is a Maximum Opening Diameter Value

² Interaction Coefficient value is for sand or gravel

| Physical Properties | Unit | Typical Value |
|----------------------------------|-----------------------------------|---------------------|
| Roll Dimensions (width x length) | m (ft) | 4.5 (15) x 91 (300) |
| Roll Area | m ² (yd ²) | 418 (500) |
| Estimated Roll Weight | kg (lbs) | 188 (415) |

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