Mirafi® RS280i 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.

TenCate Geosynthetics Americas Laboratories are accredited by a2La (The American Association for Laboratory Accreditation) and Geosynthetic Accreditation Institute – Laboratory Accreditation Program (GAI-LAP).

### Mechanical Properties

<table>
<thead>
<tr>
<th></th>
<th>Test Method</th>
<th>Unit</th>
<th>Minimum Average Roll Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>STRENGTH</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tensile Modulus @ 2% strain (CD)</td>
<td>ASTM D4595</td>
<td>lbs/ft (kN/m)</td>
<td>30000 (437.8)</td>
</tr>
<tr>
<td><strong>HYDRAULIC</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flow Rate</td>
<td>ASTM D4491</td>
<td>gal/min/ft² (l/min/m²)</td>
<td>70 (2852)</td>
</tr>
<tr>
<td>Permittivity</td>
<td>ASTM D4491</td>
<td>sec⁻¹</td>
<td>0.9</td>
</tr>
<tr>
<td><strong>SOIL RETENTION</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Apparent Opening Size (AOS)¹</td>
<td>ASTM D4751</td>
<td>U.S. Sieve (mm)</td>
<td>40 (0.43)</td>
</tr>
<tr>
<td>Pore Size Ø₉₅</td>
<td>ASTM D6767</td>
<td>microns</td>
<td>345 ³</td>
</tr>
<tr>
<td>Pore Size Ø₉₅</td>
<td>ASTM D6767</td>
<td>microns</td>
<td>196 ³</td>
</tr>
<tr>
<td><strong>SOIL INTERACTION</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Interaction Coefficient ²</td>
<td>ASTM D6706</td>
<td>--</td>
<td>0.89</td>
</tr>
<tr>
<td>UV Resistance (at 500 hours)</td>
<td>ASTM D4355</td>
<td>% strength retained</td>
<td>80 ⁴</td>
</tr>
</tbody>
</table>

¹ ASTM D4751: AOS is a Maximum Opening Diameter Value

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

³ Typical Values

⁴ Minimum

### Physical Properties

<table>
<thead>
<tr>
<th></th>
<th>Unit</th>
<th>Typical Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Roll Dimensions (width x length)</td>
<td>ft (m)</td>
<td>15 x 300 (4.57 x 91.4)</td>
</tr>
<tr>
<td>Roll Area</td>
<td>yd² (m²)</td>
<td>500 (419)</td>
</tr>
</tbody>
</table>

Interaction Coefficient (ASTM D6706) is not covered by our current A2LA accreditation.

Patent Pending

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