

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 Laboratories are accredited by Geosynthetic Accreditation Institute – Laboratory Accreditation Program ([GAI-LAP](#)).

| Mechanical Properties | Test Method | Unit | Typical Roll Value | Minimum Average Roll Value |
|--------------------------------------|-------------|---|-----------------------------|----------------------------|
| Tensile Strength @ 2% Strain (MD) | ASTM D4595 | lbs/ft (kN/m) | 840 (12.3) | 600 (8.8) |
| Tensile Strength @ 2% Strain (CD) | ASTM D4595 | lbs/ft (kN/m) | 960 (14.0) | 600 (8.8) |
| Tensile Strength @ 5% Strain (MD) | ASTM D4595 | lbs/ft (kN/m) | 1980 (28.9) | 1620 (23.6) |
| Tensile Strength @ 5% Strain (CD) | ASTM D4595 | lbs/ft (kN/m) | 2100 (30.6) | 1620 (23.6) |
| Flow Rate | ASTM D4491 | gal/min/ft ² (l/min/m ²) | 85 (3463) | 70 (2852) ¹ |
| Permittivity | ASTM D4491 | sec ⁻¹ | 1.2 | 0.9 ¹ |
| | | | Typical Roll Value | |
| Pore Size O ₉₅ | ASTM D6767 | microns | 273 | |
| Pore Size O ₅₀ | ASTM D6767 | microns | 175 | |
| Index Properties | | | Maximum Opening Size | |
| Apparent Opening Size (AOS) | ASTM D4751 | U.S. Sieve (mm) | 40 (0.425) | 40 (0.425) |
| | | | Minimum Test Value | |
| Interaction Coefficient ² | ASTM D6706 | -- | 0.89 | |
| Factory Sewn Seam | ASTM D4884 | lbs/ft (kN/m) | 2400 (35.0) | |
| UV Resistance (at 500 hours) | ASTM D4355 | % strength retained | 90 | |

¹ Minimum Roll Value

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

| Physical Properties | Unit | Roll Sizes | |
|----------------------------------|-----------------------------------|------------------------|-----------------------|
| Roll Dimensions (width x length) | ft (m) | 15 x 300 (4.57 x 91.4) | 17 x 300 (5.2 x 91.4) |
| Roll Area | yd ² (m ²) | 500 (419) | 567 (474) |

U.S. Patent: 9,404,233

TenCate, Mirafi, and the color ORANGE used in connection with geosynthetic or geotextile products are registered and/or unregistered trademarks of Nicolon Corporation.

Disclaimer: TenCate assumes no liability for the accuracy or completeness of this information or for the ultimate use by the purchaser. TenCate disclaims any and all express, implied, or statutory standards, warranties or guarantees, including without limitation any implied warranty as to merchantability or fitness for a particular purpose or arising from a course of dealing or usage of trade as to any equipment, materials, or information furnished herewith. This document should not be construed as engineering advice.

Mirafi[®] is a registered trademark of Nicolon Corporation.

Copyright © 2015 Nicolon Corporation. All Rights Reserved.