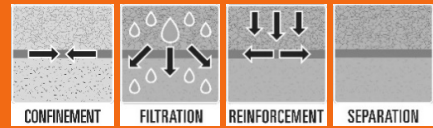


Mirafi[®] RS380*i*



Mirafi[®] RS380*i* is a specially designed geosynthetic that integrates the key performance characteristics to maximize performance. Extensive performance testing has been performed per AASHTO and FHWA guidelines to validate performance for both paved and unpaved roads. The patented weave pattern and unique Orange identifier yarn make the Mirafi[®] RS380*i* a unique performance geotextile.

Roadway Design and Performance Properties	Guidance Document / Test Method	Unit	Design / Calibration Value	
Base Course M _R Improvement Factor ¹	AASHTO R50-09	---	1.3	
Traffic Benefit Ratio: TBR ^{2,3,4}	AASHTO R50-09	---	3.9 / 5.2 / 21.75	
Interaction Coefficient: C _i ⁵	ASTM D6706	---	0.89	
Pore Pressure Dissipation Ratio ²	Measured	---	1.6	
Typical Dynamic Filtration Pore Size O ₉₅ / O ₅₀ ⁶	ASTM D6767	microns	365 / 185	
Tensile Strength @ 2% Strain (MARV)	ASTM D4595	lb/ft (kN/m)	MD	CD
			600 (8.8)	1,020 (14.9)
Tensile Strength @ 5% Strain (MARV)	ASTM D4595	lb/ft (kN/m)	1,800 (26.3)	2,256 (32.9)

Index Properties	Test Method	Unit	Roll Value
Apparent Opening Size, AOS (Maximum Roll Value)	ASTM D4751	U.S Sieve (mm)	40 (0.425)
Hydraulic Flow Rate (MARV)	ASTM D4491	gal/min/ft ² (l/min/m ²)	75 (3,056)
Permittivity (MARV)	ASTM D4491	sec ⁻¹	0.9
UV Resistance (at 500 hours exposure)	ASTM D4355	% strength retained	90

Notes:

- ¹ Value Determined from Results of Independent Testing Performed at Kansas State University in accordance with NCHRP Report 512 "Accelerated Pavement Testing: Data Guidelines" and AASHTO R50-09 Geosynthetic Reinforcement of the Aggregate Base Course of Flexible Pavement Structures." Multiplier for Unbound Granular Material; for SG M_R between 4.5 and 6.9 ksi (30.9 and 47.4 MPa).
- ² Value Determined from Results of Independent Testing Performed at GeoTesting Express (GeoComp) "A Laboratory Evaluation of the Performance of TenCate Mirafi[®] Geosynthetics in Roadway Stabilization Applications – Georgia Silt Subgrade," September 1, 2011. 9-kip (40 kN) Wheel Load, SG CBR = 1%, 12-inch (300-mm) Crushed Aggregate BC (CBR > 25%), 3-inch (75-mm) Rut Depth.
- ³ Value Determined from Results of Independent Testing Performed at LTRC "Performance of Reinforced–Stabilized Unpaved Test Sections Built Over Native Soft Soil Under Full-Scale Moving Wheel Loads," TRR Volume 2511, 2015. Measured at 0.34-inch (8.64 mm) Rut Depth; Peak Pore Pressure 6-inches (150 mm) Below Geosynthetic.
- ⁴ Value Determined from Results of Independent Testing Performed at GeoTesting Express (GeoComp) "A Laboratory Evaluation of the Performance of TenCate Mirafi[®] Geosynthetics in Roadway Stabilization Applications – Montana Clay Subgrade," September 1, 2011. 9-kip (40 kN) Wheel Load, SG CBR = 1.8%, 8-inch (200-mm) Rounded Aggregate BC (CBR > 25%), 3-inch (75-mm) Rut Depth.
- ⁵ Interaction Coefficient value is for sand (SP) or gravel (GW) based on testing conducted by SGI Testing Services.
- ⁶ Typical Value Determined from Specimen Results of Independent Testing Performed at TRI Environmental, Various Dates.
U.S. Patent 8,333,220 and 8,598,054

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

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