

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

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Mirafi[®] RS380*i*



Mirafi[®] RS380*i* is a revolutionary geotextile 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.

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Mechanical Properties	Test Method	Unit	Typical Roll Value	Minimum Average Roll Value
Tensile Strength @ 2% strain (MD)	ASTM D4595	lbs/ft (kN/m)	720 (10.5)	600 (8.8)
Tensile Strength at 2% Strain (CD)	ASTM D4595	lbs/ft (kN/m)	1200 (17.5)	1020 (14.9)
Tensile Strength @ 5% strain (MD)	ASTM D4595	lbs/ft (kN/m)	2100 (30.6)	1800 (26.3)
Tensile Strength @ 5% strain (CD)	ASTM D4595	lbs/ft (kN/m)	2580 (37.6)	2256 (32.9)
Flow Rate	ASTM D4491	gal/min/ft ² (l/min/m ²)	85 (3463)	75 (3056) ¹
Permittivity	ASTM D4491	sec ⁻¹	1.2	0.9 ¹
			Typical Roll Value	
Pore Size O ₉₅	ASTM D6767	microns	365	
Pore Size O ₅₀	ASTM D6767	microns	185	
Index Properties			Maximum Opening Size	
Apparent Opening Size (AOS)	ASTM D4751	U.S. Sieve (mm)	50 (0.30)	40 (0.425)
			Minimum Test Value	
Interaction Coefficient ²	ASTM D6706	--	0.89	
Factory Sewn Seam	ASTM D4884	lbs/ft (kN/m)	2700 (39.4)	
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)	17 x 300 (5.2 x 91)
Roll Area	yd ² (m ²)	500 (419)	567 (474)

U.S. Patent 8,333,220 and Pending

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Mirafi[®] RS580*i*



Mirafi[®] RS580*i* 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](#)).

Performance Properties	Test Method	Unit	Typical Roll Value	Minimum Average Roll Value
Tensile Strength @ 2% strain (MD)	ASTM D4595	lbs/ft (kN/m)	540 (7.9)	480 (7.0)
Tensile Strength @ 2% strain (CD)	ASTM D4595	lbs/ft (kN/m)	2160 (31.5)	1800 (26.3)
Tensile Strength @ 5% strain (MD)	ASTM D4595	lbs/ft (kN/m)	1560 (22.8)	1440 (21.0)
Tensile Strength @ 5% strain (CD)	ASTM D4595	lbs/ft (kN/m)	4920 (71.8)	4380 (69.3)
Flow Rate	ASTM D4491	gal/min/ft ² (l/min/m ²)	90 (3667)	75 (3056) ¹
Permittivity	ASTM D4491	sec ⁻¹	1.2	1.0 ¹
			Typical Roll Value	
Pore Size O ₉₅	ASTM D6767	microns	337	
Pore Size O ₅₀	ASTM D6767	microns	192	
Index Properties			Maximum Opening Size	
Apparent Opening Size (AOS)	ASTM D4751	U.S Sieve (mm)	50 (0.30)	40 (0.425)
			Minimum Test Value	
Interaction Coefficient ²	ASTM D6706	--	0.9	
Factory Seam Strength	ASTM D4884	lbs/ft (kN/m)	3000 (43.8)	
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 (4.6 x 91)	17 x 300 (5.2 x 91)
Roll Area	yd ² (m ²)	500 (418)	567 (474)

U.S. Patent 8,333,220 and 8,598,054

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