

# Mirafi<sup>®</sup> RS280i



Mirafi<sup>®</sup> 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 <sup>2</sup> (l/min/m <sup>2</sup> )	85 (3463)	70 (2852) <sup>1</sup>
Permittivity	ASTM D4491	sec <sup>-1</sup>	1.2	0.9 <sup>1</sup>
			<b>Typical Roll Value</b>	
Pore Size O <sub>95</sub>	ASTM D6767	microns	273	
Pore Size O <sub>50</sub>	ASTM D6767	microns	175	
<b>Index Properties</b>			<b>Maximum Opening Size</b>	
Apparent Opening Size (AOS)	ASTM D4751	U.S. Sieve (mm)	40 (0.425)	40 (0.425)
			<b>Minimum Test Value</b>	
Interaction Coefficient <sup>2</sup>	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	

<sup>1</sup> Minimum Roll Value

<sup>2</sup> 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 <sup>2</sup> (m <sup>2</sup> )	500 (419)	567 (474)

U.S. Patent: 9,404,233

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