



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 (A Solmax Company) is accredited by Geosynthetic Accreditation Institute – Laboratory Accreditation Program ([GAI-LAP](#)).

MIRAFI RS280i meets Build America, Buy America Act, Pub. L. No. 117-58, div. G §§ 70901-52.

MECHANICAL PROPERTIES	TEST METHOD	UNIT	MINIMUM AVERAGE ROLL VALUE	
			MD	CD
Tensile Strength (at 2% strain)	ASTM D4595	lbs/ft (kN/m)	600 (8.8)	660 (9.6)
Tensile Strength (at 5% strain)	ASTM D4595	lbs/ft (kN/m)	1620 (23.6)	1632 (23.8)
Grab Tensile Strength	ASTM D4632	lbs (N)	450 (2003)	320 (1424)
Grab Tensile Elongation	ASTM D4632	%	12	10
Trapezoid Tear Strength	ASTM D4533	lbs (N)	150 (668)	160 (712)
CBR Puncture Strength	ASTM D6241	lbs (N)	1300 (5785)	
MINIMUM ROLL VALUE				
Flow Rate	ASTM D4491	gal/min/ft ² (l/min/m ²)	70 (2852)	
Permittivity	ASTM D4491	sec ⁻¹	0.9	
TYPICAL ROLL VALUE				
Pore Size O ₉₅	ASTM D6767	microns	360	
Pore Size O ₅₀	ASTM D6767	microns	220	
MAXIMUM OPENING SIZE				
Apparent Opening Size (AOS)	ASTM D4751	U.S. Sieve (mm)	40 (0.425)	
MINIMUM TEST VALUE				
UV Resistance (at 500 hours)	ASTM D4355	% strength retained	90	
Interaction Coefficient ¹	ASTM D6706	--	0.89	
Factory Sewn Seam	ASTM D4884	lbs/ft (kN/m)	2400 (35.0)	
PHYSICAL PROPERTIES		UNIT	Roll Size	
Roll Dimensions (width x length)		ft (m)	15 x 300 (4.5 x 91)	
			17 x 300 (5.2 x 91.4)	
Roll Area		yd ² (m ²)	500 (418)	
Estimated Roll Weight		lbs (kgs)	567 (474)	
			270 (122.5)	

¹ Interaction Coefficient value is for sand or gravel based on testing conducted by SGI Testing Services.

U.S. Patent: 9,404,233 & 10,844,520

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