MIRAFI RSi

MIRAFI® RSi Series is a revolutionary geotextile created from 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. It is extremely robust and suitable for laying directly over soft subgrade with minimum manpower.

Properties		Test Standard	Unit	RS 380i	RS 580i
Mechanical					
Characteristic Tensile Strength at 2% Strain	CD	ASTM D4595	kN/m	20	26
Characteristic Tensile Strength at 2% Strain	MD	ASTM D4595	kN/m	8	9
CBR Puncture Strength		ASTM D6241	N	6600	9000
Grab Strength		ASTM D4632	N	1500	2100
Trapezoidal Tear Strength		ASTM D4533	N	600	700
G-Rating		Austroads	-	7000[1]	10000[1]
Hydraulic					
Flow Rate		ASTM D4491	$l/m^2/min$	3050	3050
Permittivity		ASTM D4491	sec^{-1}	0.9	1.0
Soil Retention					
Apparent Opening Size, O_{95}		ASTM D4751	mm	0.43	0.43
Effective Opening Size, O_{90}		ISO 12956	mm	0.35	0.30
Soil Interaction					
Interaction Coefficient (Direct Shear)		ASTM D5321	-	0.80[1]	0.80[1]
Interaction Coefficient (Pull-out)		ASTM D6706	-	0.89[1]	0.90[1]
Resistance to Installation Damage		ASTM D5818	% strength retained	90[1]	90[1]
UV Resistance (at 500 hours)		ASTM D4355	% strength retained	90	90
Physical Properties					
Roll Dimension (width x length)			m	4.6 x 100	4.6 x 100
Roll Area			m	460	460

NOTES:

(1) G-Rating, interaction coefficient (for sand or gravel) and resistance to installation damage (for sandy gravel) values are based on tests conducted by external test laboratories.

Solmax Geosynthetics Asia Sdn. Bhd. (formerly known as TenCate Geosynthetics Asia Sdn Bhd)
199301009495 (264232-U)
14, Jalan Sementa 27/91, Seksyen 27,
40400 Shah Alam, Selangor Darul Ehsan, Malaysia
Tel: +60 3 5192 8568 | Fax: +60 3 5192 8575

infoasia@solmax.com

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