

# Mirafi<sup>®</sup> S1600

Mirafi<sup>®</sup> S1600 is a needle-punched nonwoven geotextile composed of polypropylene fibers, which are formed into a stable network such that the fibers retain their relative position. Mirafi<sup>®</sup> S1600 is inert to biological degradation and resistant to naturally encountered chemicals, alkalis, and acids.

Mechanical Properties	Test Method	Unit	Minimum Average Roll Value
Weight	ASTM D 5261	g/m <sup>2</sup> (oz/yd <sup>2</sup> )	542 (16.0)
Thickness	ASTM D 5199	mm (mils)	4.4 (175)
Grab Tensile Strength	ASTM D 4632	N (lbs)	1891 (425)
Grab Tensile Elongation	ASTM D 4632	%	50
Trapezoid Tear Strength	ASTM D 4533	N (lbs)	645 (145)
CBR Puncture Strength	ASTM D 6241	N (lbs)	5340 (1200)
Apparent Opening Size (AOS) <sup>1</sup>	ASTM D 4751	mm (U.S. Sieve)	0.15 (100)
Permittivity	ASTM D 4491	sec <sup>-1</sup>	0.7
Permeability	ASTM D 4491	cm/sec	0.31
Flow Rate	ASTM D 4491	l/min/m <sup>2</sup> (gal/min/ft <sup>2</sup> )	2037 (50)
UV Resistance (at 500 hours)	ASTM D 4355	% strength retained	80

<sup>1</sup> ASTM D 4751: AOS is a Maximum Opening diameter value

Physical Properties	Unit	Typical Value
Roll Dimensions (width x length)	m (ft)	4.5 x 91 (15 x 300)
Roll Area	m <sup>2</sup> (yd <sup>2</sup> )	418 (500)
Estimated Roll Weight	kg (lb)	240 (530)

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