

# Mirafi<sup>®</sup> 140NL

Mirafi<sup>®</sup> 140NL is a nonwoven geotextile composed of polypropylene fibers, which are formed into a network such that the fibers retain their relative position. Mirafi<sup>®</sup> 140NL is inert to biological degradation and resists naturally encountered chemicals, alkalis, and acids.

Mechanical Properties	Test Method	Unit	Typical Value	
			MD	CD
Tensile Strength (at ultimate)	ASTM D 4595	kN/m (lbs/in)	7.0 (40)	7.0 (40)
Grab Tensile Strength	ASTM D 4632	N (lbs)	467 (105)	467 (105)
Grab Tensile Elongation	ASTM D 4632	%	80	80
Trapezoid Tear Strength	ASTM D 4533	N (lbs)	223 (50)	223 (50)
Mullen Burst Strength	ASTM D 3786	kPa (psi)	1446 (210)	
Puncture Strength <sup>1</sup>	ASTM D 4833	N (lbs)	267 (60)	
CBR Puncture Strength	ASTM D 6241	N (lbs)	1335 (300)	
Apparent Opening Size (AOS) <sup>2</sup>	ASTM D 4751	mm (U.S. Sieve)	0.212 (70)	
Permittivity	ASTM D 4491	sec <sup>-1</sup>	2.7	
Flow Rate	ASTM D 4491	l/min/m <sup>2</sup> (gal/min/ft <sup>2</sup> )	7944 (195)	
UV Resistance (at 500 hours)	ASTM D 4355	% strength retained	70	

<sup>1</sup> ASTM D 4833 has been replaced with ASTM D 6241

<sup>2</sup> ASTM D 4751: AOS is a Maximum Opening Diameter Value

Physical Properties	Test Method	Unit	Typical Value	
Weight	ASTM D 5261	g/m <sup>2</sup> (oz/yd <sup>2</sup> )	135 (4.0)	
Thickness	ASTM D 5199	mm (mils)	0.1 (35)	
Roll Dimensions (width x length)	--	m (ft)	3.8 x 110 (12.5 x 360)	4.5 x 110 (15 x 360)
Roll Area	--	m <sup>2</sup> (yd <sup>2</sup> )	418 (500)	502 (600)
Estimated Roll Weight	--	kg (lb)	60 (133)	70 (160)

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