

# Mirafi<sup>®</sup> 140NC

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

Mechanical Properties	Test Method	Unit	Minimum Average Roll Value	
			MD	CD
Grab Tensile Strength	ASTM D 4632	kN (lbs)	0.45 (100)	0.45 (100)
Grab Tensile Elongation	ASTM D 4632	%	60	60
Toughness	Grab Tensile Strength x Elongation	lbs	6000	
Trapezoid Tear Strength	ASTM D 4533	kN (lbs)	0.20 (45)	0.20 (45)
Mullen Burst Strength	ASTM D 3786	kPa (psi)	1447 (210)	
Puncture Strength <sup>1</sup>	ASTM D 4833	kN (lbs)	0.30 (65)	
CBR Puncture Strength	ASTM D 6241	kN (lbs)	1.11 (250)	
Apparent Opening Size (AOS)	ASTM D 4751	mm (U.S. Sieve)	0.212 (70)	
Permittivity	ASTM D 4491	sec <sup>-1</sup>	1.9	
Permeability	ASTM D 4491	cm/sec	0.21	
Flow Rate	ASTM D 4491	l/min/m <sup>2</sup> (gal/min/ft <sup>2</sup> )	5704 (140)	
Mass / Unit Area	ASTM D 5261	g/m <sup>2</sup> (oz/yd <sup>2</sup> )	136 (4.0)	
UV Resistance (at 500 hours)	ASTM D 4355	% strength retained	70	

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

Physical Properties	Test Method	Unit	Typical Value	
Thickness	ASTM D 5199	mm (mils)	1.1 (42)	
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)	69 (152)	83 (182)

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