



# Mirafi<sup>®</sup> 170N

Mirafi<sup>®</sup> 170N is a nonwoven geotextile composed of polypropylene fibers, which are formed into a stable network such that the fibers retain their relative position. Mirafi<sup>®</sup> 170N 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)	12.8 (73)	12.8 (73)
Grab Tensile Strength	ASTM D 4632	N (lbs)	930 (209)	930 (209)
Grab Tensile Elongation	ASTM D 4632	%	70	70
Trapezoid Tear Strength	ASTM D 4533	N (lbs)	423 (95)	423 (95)
Mullen Burst Strength	ASTM D 3786	kPa (psi)	2673 (388)	
Puncture Strength <sup>1</sup>	ASTM D 4833	N (lbs)	579 (130)	
CBR Puncture Strength	ASTM D 6241	N (lbs)	2670 (600)	
Apparent Opening Size (AOS) <sup>2</sup>	ASTM D 4751	mm (U.S. Sieve)	0.13 (120)	
Permittivity	ASTM D 4491	sec <sup>-1</sup>	1.6	
Flow Rate	ASTM D 4491	l/min/m <sup>2</sup> (gal/min/ft <sup>2</sup> )	4807 (118)	
UV Resistance (at 500 hours)	ASTM D 4355	% strength retained	75	

<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> )	251 (7.4)
Thickness	ASTM D 5199	mm (mils)	1.7 (67)
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)	110 (242)

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