



# Mirafi<sup>®</sup> 1160N

Mirafi<sup>®</sup> 1160N 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> 1160N 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)	31.5 (180)	31.5 (180)
Grab Tensile Strength	ASTM D 4632	N (lbs)	1958 (440)	1958 (440)
Grab Tensile Elongation	ASTM D 4632	%	70	70
Trapezoid Tear Strength	ASTM D 4533	N (lbs)	801 (180)	801 (180)
Mullen Burst Strength	ASTM D 3786	kPa (psi)	5270 (765)	
Puncture Strength <sup>1</sup>	ASTM D 4833	N (lbs)	1179 (265)	
CBR Puncture Strength	ASTM D 6241	N (lbs)	5683 (1277)	
Apparent Opening Size (AOS) <sup>2</sup>	ASTM D 4751	mm (U.S. Sieve)	0.11 (140)	
Permittivity	ASTM D 4491	sec <sup>-1</sup>	0.83	
Flow Rate	ASTM D 4491	l/min/m <sup>2</sup> (gal/min/ft <sup>2</sup> )	2444 (60)	
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> )	509 (15)
Thickness	ASTM D 5199	mm (mils)	3.2 (125)
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)	205 (453)

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