



# 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	Minimum Average Roll Value	
			MD	CD
Grab Tensile Strength	ASTM D 4632	N (lbs)	1691 (380)	1691 (380)
Grab Tensile Elongation	ASTM D 4632	%	50	50
Trapezoid Tear Strength	ASTM D 4533	N (lbs)	623 (140)	623 (140)
Mullen Burst Strength	ASTM D 3786	kPa (psi)	5098 (740)	
Puncture Strength <sup>1</sup>	ASTM D 4833	N (lbs)	1046 (235)	
CBR Puncture Strength	ASTM D 6241	N (lbs)	4450 (1000)	
Apparent Opening Size (AOS) <sup>2</sup>	ASTM D 4751	mm (U.S. Sieve)	0.15 (100)	
Permittivity	ASTM D 4491	sec <sup>-1</sup>	0.54	
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	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 46 (15 x 150)
Roll Area	--	m <sup>2</sup> (yd <sup>2</sup> )	209 (250)
Estimated Roll Weight	--	kg (lb)	109 (240)

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