



Mirafi[®] 180N

Mirafi[®] 180N is a nonwoven geotextile composed of polypropylene fibers, which are formed into a stable network such that the fibers retain their relative position. Mirafi[®] 180N 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)	0.918 (205)	0.918 (205)
Grab Tensile Elongation	ASTM D 4632	%	50	50
Trapezoid Tear Strength	ASTM D 4533	kN (lbs)	0.358 (80)	0.358 (80)
Mullen Burst Strength	ASTM D 3786	kPa (psi)	2411.5 (350)	
Puncture Strength ¹	ASTM D 4833	kN (lbs)	0.493 (110)	
CBR Puncture Strength	ASTM D 6241	kN (lbs)	2.24 (500)	
Apparent Opening Size (AOS)	ASTM D 4751	mm (U.S. Sieve)	0.18 (80)	
Permittivity	ASTM D 4491	sec ⁻¹	1.1	
Flow Rate	ASTM D 4491	l/min/m ² (gal/min/ft ²)	3870.3 (95)	
UV Resistance (at 500 hours)	ASTM D 4355	% strength retained	70	

¹ ASTM D 4833 has been replaced with ASTM D 6241

Physical Properties	Test Method	Unit	Typical Value
Weight	ASTM D 5261	g/m ² (oz/yd ²)	267.2 (8.0)
Thickness	ASTM D 5199	mm (mils)	1.829 (72)
Roll Dimensions (width x length)	--	m (ft)	4.5 x 91 (15 x 300)
Roll Area	--	m ² (yd ²)	418 (500)
Estimated Roll Weight	--	kg (lb)	113 (250)

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