



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 geotextile 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)	17.2 (98)	17.2 (98)
Grab Tensile Strength	ASTM D 4632	N (lbs)	1068 (240)	1068 (240)
Grab Tensile Elongation	ASTM D 4632	%	80	80
Trapezoid Tear Strength	ASTM D 4533	N (lbs)	490 (110)	490 (110)
Mullen Burst Strength	ASTM D 3786	kPa (psi)	2618 (380)	
Puncture Strength ¹	ASTM D 4833	N (lbs)	534 (120)	
CBR Puncture Strength	ASTM D 6241	N (lbs)	3115 (700)	
Apparent Opening Size (AOS) ²	ASTM D 4751	mm (U.S. Sieve)	0.15 (100)	
Permittivity	ASTM D 4491	sec ⁻¹	1.7	
Flow Rate	ASTM D 4491	l/min/m ² (gal/min/ft ²)	4481 (110)	
UV Resistance (at 500 hours)	ASTM D 4355	% strength retained	80	

¹ ASTM D 4833 has been replaced with ASTM D 6241

² ASTM D 4751: AOS is a Maximum Opening Diameter Value

Physical Properties	Test Method	Unit	Typical Value
Weight	ASTM D 5261	g/m ² (oz/yd ²)	271 (8.0)
Thickness	ASTM D 5199	mm (mils)	1.8 (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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