

Mirafi® 140N

Mirafi® 140N is a nonwoven geotextile composed of polypropylene fibers, which are formed into a stable network such that the fibers retain their relative position. 140N 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 4632-91	kN (lbs)	0.53 (120)	0.53 (120)
Grab Tensile Elongation	ASTM D 4632-91	%	50	50
Trapezoid Tear Strength	ASTM D 4533-91	kN (lbs)	0.22 (50)	0.22 (50)
Mullen Burst Strength	ASTM D 3786-87	kPa (psi)	1550 (225)	
Puncture Strength	ASTM D 4833-00	kN (lbs)	0.30 (65)	
Apparent Opening Size (AOS)	ASTM D 4751-99A	mm (U.S. Sieve)	0.212 (70)	
Permittivity	ASTM D 4491-99A	sec ⁻¹	1.8	
Permeability	ASTM D 4491-99A	cm/sec	0.21	
Flow Rate	ASTM D 4491-99A	l/min/m ² (gal/min/ft ²)	5500 (135)	
UV Resistance (at 500 hours)	ASTM D 4355-02	% strength retained	70	

Physical Properties	Test Method	Unit	Typical Value	
Weight	ASTM D 5261-92	g/m ² (oz/yd ²)	163 (4.8)	
Thickness	ASTM D 5199-01	mm (mils)	1.4 (55)	
Roll Dimensions (width x length)	--	m (ft)	3.8 x 110 (12.5 x 360)	4.5 x 110 (15 x 360)
Roll Area	--	m ² (yd ²)	418 (500)	502 (600)
Estimated Roll Weight	--	kg (lb)	74 (164)	89 (197)

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