



Mirafi[®] 140N

Mirafi[®] 140N is a needlepunched nonwoven geotextile composed of polypropylene fibers, which are formed into a stable network such that the fibers retain their relative position. Mirafi[®] 140N is inert to biological degradation and resists naturally encountered chemicals, alkalis, and acids. Mirafi[®] 140N meets Aashto M288-06 Class 3 for elongation > 50%.

Mechanical Properties	Test Method	Unit	Minimum Average Roll Value	
			MD	CD
Grab Tensile Strength	ASTM D4632	N (lbs)	534 (120)	534 (120)
Grab Tensile Elongation	ASTM D4632	%	50	50
Trapezoid Tear Strength	ASTM D4533	N (lbs)	223 (50)	223 (50)
CBR Puncture Strength	ASTM D6241	N (lbs)	1380 (310)	
Apparent Opening Size (AOS) ¹	ASTM D4751	mm (U.S. Sieve)	0.212 (70)	
Permittivity	ASTM D4491	sec ⁻¹	1.7	
Flow Rate	ASTM D4491	l/min/m ² (gal/min/ft ²)	5500 (135)	
UV Resistance (at 500 hours)	ASTM D4355	% strength retained	70	

¹ ASTM D 4751: AOS is a Maximum Opening Diameter Value

Physical Properties	Test Method	Unit	Typical Value	
Weight	ASTM D5261	g/m ² (oz/yd ²)	163 (4.8)	
Thickness	ASTM D5199	mm (mils)	1.0 (40)	
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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