

Mirafi[®] 140NL

Mirafi[®] 140NL is a needlepunched nonwoven geotextile composed of polypropylene fibers, which are formed into a network such that the fibers retain their relative position. Mirafi[®] 140NL 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 D4632	N (lbs)	401 (90)	401(90)
Grab Tensile Elongation	ASTM D4632	%	50	50
Trapezoid Tear Strength	ASTM D4533	N (lbs)	178 (40)	178 (40)
CBR Puncture Strength	ASTM D6241	N (lbs)	1113 (250)	
Apparent Opening Size (AOS) ¹	ASTM D4751	mm (U.S. Sieve)	0.25 (60)	
Permittivity	ASTM D4491	sec ⁻¹	2.0	
Flow Rate	ASTM D4491	l/min/m ² (gal/min/ft ²)	5907 (145)	
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)	136 (4.0)	
Thickness	ASTM D5199	mm (mils)	0.9 (35)	
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)	60 (133)	70 (160)

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