

Mirafi[®] 1100NPA (PennDOT, Class4)

Mirafi[®] 1100NPA (PennDOT, Class 4) is a nonwoven geotextile composed of polypropylene fibers, which are formed into a stable network such that the fibers retain their relative position. Mirafi[®] 1100NPA 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	lbs (N)	270 (1202)	270 (1202)
Grab Tensile Elongation	ASTM D4632	%	50	50
Trapezoid Tear Strength	ASTM D4533	lbs (N)	100 (445)	100 (445)
Puncture Strength ¹	ASTM D4833	lbs (N)	100 (445)	
CBR Puncture Strength	ASTM D6241	lbs (N)	700 (3115)	
Apparent Opening Size (AOS) ²	ASTM D4751	U.S. Sieve (mm)	100 (0.15)	
Permittivity	ASTM D4491	sec ⁻¹	0.8	
Flow Rate	ASTM D4491	gal/min/ft ² (l/min/m ²)	75 (3056)	
UV Resistance (at 500 hours)	ASTM D4355	% strength retained	70	

¹ ASTM D4833 has been replaced with ASTM D 6241

² ASTM D4751: AOS is a Maximum Opening Diameter Value

Physical Properties	Unit	Typical Value
Roll Dimensions (width x length)	ft (m)	15 x 300 (4.5 x 91)
Roll Area	yd ² (m ²)	500 (418)
Estimated Roll Weight	lb (kg)	358 (162)

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