



## Mirafi<sup>®</sup> 500X

Mirafi<sup>®</sup> 500X is composed of high-tenacity polypropylene yarns, which are woven into a stable network such that the yarns retain their relative position. 500X is inert to biological degradation and resistant to naturally encountered chemicals, alkalis, and acids.

Mechanical Properties	Test Method	Unit	Minimum Average Roll Value	
			MD	CD
Grab Tensile Strength	ASTM D 4632	kN (lbs)	0.9 (200)	0.9 (200)
Grab Tensile Elongation	ASTM D 4632	%	15	10
Trapezoid Tear Strength	ASTM D 4533	kN (lbs)	0.33 (75)	0.33 (75)
Mullen Burst Strength	ASTM D 3786	kPa (psi)	2756 (400)	
Puncture Strength <sup>1</sup>	ASTM D 4833	kN (lbs)	0.4 (90)	
CBR Puncture Strength	ASTM D 6241	kN (lbs)	3.11 (700)	
Apparent Opening Size (AOS)	ASTM D 4751	mm (U.S. Sieve)	0.420 (40)	
Permittivity	ASTM D 4491	sec <sup>-1</sup>	0.05	
Flow Rate	ASTM D 4491	l/min/m <sup>2</sup> (gal/min/ft <sup>2</sup> )	200 (5.0)	
UV Resistance (at 500 hours)	ASTM D 4355	% strength retained	70	

<sup>1</sup> ASTM D 4833 has been replaced with ASTM D 6241

Physical Properties	Test Method	Unit	Typical Value	
Weight	ASTM D 5261	g/m <sup>2</sup> (oz/yd <sup>2</sup> )	136 (4.0)	
Thickness	ASTM D 5199	mm (mils)	0.51 (20)	
Roll Dimensions (width x length)	--	m (ft)	3.8 x 132 (12.5 x 432)	5.3 x 94.2 (17.5 x 309)
Roll Area	--	m <sup>2</sup> (yd <sup>2</sup> )	502 (600)	502 (600)
Estimated Roll Weight	--	kg (lb)	95 (210)	95 (210)

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# Mirafi<sup>®</sup> 600X

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Mechanical Properties	Test Method	Unit	Minimum Average Roll Value	
			MD	CD
Grab Tensile Strength	ASTM D 4632	kN (lbs)	1.40 (315)	1.40 (315)
Grab Tensile Elongation	ASTM D 4632	%	15	
Trapezoid Tear Strength	ASTM D 4533	kN (lbs)	0.53 (120)	0.53 (120)
Mullen Burst Strength	ASTM D 3786	kPa (psi)	4134 (600)	
Puncture Strength	ASTM D 4833	kN (lbs)	0.65 (145)	
Percent Open Area	COE-02215-86	%	1	
Apparent Opening Size (AOS)	ASTM D 4751	mm (U.S. Sieve)	0.425 (40)	
Permittivity	ASTM D 4491	sec <sup>-1</sup>	0.05	
Flow Rate	ASTM D 4491	l/min/m <sup>2</sup> (gal/min/ft <sup>2</sup> )	163 (4.0)	
UV Resistance (at 500 hours)	ASTM D 4355	% strength retained	70	

Physical Properties	Test Method	Unit	Typical Value	
Weight	ASTM D 5261	g/m <sup>2</sup> (oz/yd <sup>2</sup> )	203 (6.0)	
Thickness	ASTM D 5199	mm (mils)	0.64 (25)	
Roll Dimensions (width x length)	--	m (ft)	3.8 x 110 (12.5 x 360)	5.3 x 78.7 (17.5 x 258)
Roll Area	--	m <sup>2</sup> (yd <sup>2</sup> )	418 (500)	
Estimated Roll Weight	--	kg (lb)	109 (240)	

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