



# 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. Mirafi<sup>®</sup> 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)	0.3 (75)	0.3 (75)
Mullen Burst Strength	ASTM D 3786	kPa (psi)	2755.6 (400)	
Puncture Strength <sup>1</sup>	ASTM D 4833	kN (lbs)	0.4 (90)	
CBR Puncture Strength	ASTM D 6241	kN (lbs)	3.1 (700)	
Apparent Opening Size (AOS) <sup>2</sup>	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> )	203.7 (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

<sup>2</sup> ASTM D 4751, AOS is a Maximum Opening Diameter Value

Physical Properties	Test Method	Unit	Typical Value	
Weight	ASTM D 5261	g/m <sup>2</sup> (oz/yd <sup>2</sup> )	135.6 (4.0)	
Thickness	ASTM D 5199	mm (mils)	0.5 (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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