



Mirafi[®] 500X

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

Mechanical Properties	Test Method	Unit	Typical Value	
			MD	CD
Tensile Strength (at ultimate)	ASTM D 4595	kN/m (lbs/in)	17.5 (100)	21.0 (120)
Grab Tensile Strength	ASTM D 4632	kN (lbs)	1.2 (260)	1.0 (230)
Grab Tensile Elongation	ASTM D 4632	%	28	19
Trapezoid Tear Strength	ASTM D 4533	kN (lbs)	0.5 (110)	0.5 (105)
Mullen Burst Strength	ASTM D 3786	kPa (psi)	4030 (585)	
Puncture Strength ¹	ASTM D 4833	kN (lbs)	0.5 (122)	
CBR Puncture Strength	ASTM D 6241	kN (lbs)	3.8 (850)	
Apparent Opening Size (AOS) ²	ASTM D 4751	mm (U.S. Sieve)	0.3 (60)	
Permittivity	ASTM D 4491	sec ⁻¹	0.16	
Flow Rate	ASTM D 4491	l/min/m ² (gal/min/ft ²)	407.4 (10)	
UV Resistance (at 500 hours)	ASTM D 4355	% strength retained	70	

¹ ASTM D 4833 has been replaced with ASTM D 6241

² ASTM D 4751, AOS is a Maximum Opening Diameter Value

Physical Properties	Test Method	Unit	Typical Value	
Weight	ASTM D 5261	g/m ² (oz/yd ²)	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 ² (yd ²)	502 (600)	502 (600)
Estimated Roll Weight	--	kg (lb)	95 (210)	95 (210)

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