



Mirafi[®] FW500

Mirafi[®] FW500 geotextile is composed of high-tenacity monofilament and slit tape polypropylene yarns, which are woven into a stable network such that the yarns retain their relative position. Mirafi[®] FW500 geotextile is inert to biological degradation and resists naturally encountered chemicals, alkalis, and acids.

Mechanical Properties	Test Method	Unit	Typical Value	
			MD	CD
Wide Width Tensile Strength	ASTM D 4595	kN/m (lbs/ft)	46.4 (3180)	54.3 (3720)
Grab Tensile Strength	ASTM D 4632	N (lbs)	1802 (405)	2114 (475)
Grab Tensile Elongation	ASTM D 4632	%	25	25
Trapezoid Tear Strength	ASTM D 4533	N (lbs)	668 (150)	779 (175)
Mullen Burst Strength	ASTM D 3786	kPa (psi)	5683 (825)	
Puncture Strength	ASTM D 4833	N (lbs)	0.62 (140)	
Apparent Opening Size (AOS) ¹	ASTM D 4751	mm (U.S. Sieve)	0.25 (60)	
Percent Open Area	COE-22125	%	4.5	
Permittivity	ASTM D 4491	sec ⁻¹	1.1	
Permeability	ASTM D 4491	cm/sec	0.1	
Flow Rate	ASTM D 4491	l/min/m ² (gal/min/ft ²)	3463 (85)	
UV Resistance (at 500 hours)	ASTM D 4355	% strength retained	70	

¹ ASTM D 4751: AOS is a Maximum Opening Diameter Value

Physical Properties	Test Method	Unit	Typical Value
Mass/Unit Area	ASTM D 5261	g/m ² (oz/yd ²)	271.2 (8.0)
Thickness	ASTM D 5199	mm (mils)	0.89 (35)
Roll Dimensions (width x length)	--	m (ft)	3.7 (12) x 91 (300)
Roll Area	--	m ² (yd ²)	334 (400)
Estimated Roll Weight	---	kg (lbs)	96 (212)

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