



Mirafi[®] FW500

Mirafi[®] FW500 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 is inert to biological degradation and resists naturally encountered chemicals, alkalis, and acids.

Mechanical Properties	Test Method	Unit	Minimum Average Roll Value	
			MD	CD
Wide Width Tensile Strength	ASTM D 4595	kN/m (lbs/ft)	32.1 (2196)	43.8 (3000)
Grab Tensile Strength	ASTM D 4632	kN (lbs)	1.4 (325)	1.9 (425)
Grab Tensile Elongation	ASTM D 4632	%	15	15
Trapezoid Tear Strength	ASTM D 4533	kN (lbs)	0.6 (135)	0.6 (150)
Mullen Burst Strength	ASTM D 3786	kPa (psi)	5166.7 (750)	
Puncture Strength	ASTM D 4833	kN (lbs)	0.6 (140)	
Apparent Opening Size (AOS)	ASTM D 4751	mm (U.S. Sieve)	0.30 (50)	
Percent Open Area	COE-22125	%	4	
Permittivity	ASTM D 4491	sec ⁻¹	0.51	
Permeability	ASTM D 4491	cm/sec	0.027	
Flow Rate	ASTM D 4491	l/min/m ² (gal/min/ft ²)	1426.1 (35)	
UV Resistance (at 500 hours)	ASTM D 4355	% strength retained	70	

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)	0.9 (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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