



Mirafi[®] FW700

Mirafi[®] FW700 geotextile is composed of high-tenacity monofilament polypropylene yarns, which are woven into a stable network such that the yarns retain their relative position. Mirafi[®] FW700 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)	52.5 (3600)	31.5 (2160)
Grab Tensile Strength	ASTM D 4632	N (lbs)	2047 (460)	1246 (280)
Grab Tensile Elongation	ASTM D 4632	%	25	25
Trapezoid Tear Strength	ASTM D 4533	N (lbs)	712 (160)	423 (95)
Mullen Burst Strength	ASTM D 3786	kPa (psi)	3789 (550)	
Puncture Strength ¹	ASTM D 4833	N (lbs)	668 (150)	
CBR Puncture Strength	ASTM D 6241	N (lbs)	4895 (1100)	
Apparent Opening Size (AOS) ²	ASTM D 4751	mm (U.S. Sieve)	0.18 (80)	
Percent Open Area	COE-02215	%	5	
Permittivity	ASTM D 4491	sec ⁻¹	0.7	
Permeability	ASTM D 4491	cm/sec	0.03	
Flow Rate	ASTM D 4491	l/min/m ² (gal/min/ft ²)	2037 (50)	
UV Resistance (at 500 hours)	ASTM D 4355	% strength retained	90	

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
Mass/Unit Area	ASTM D 5261	g/m ² (oz/yd ²)	210.2 (6.2)
Thickness	ASTM D 5199	mm (mils)	0.4 (15)
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)	74 (164)

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