



# Mirafi<sup>®</sup> FW700

Mirafi<sup>®</sup> FW700 is composed of high-tenacity monofilament polypropylene yarns, which are woven into a stable network such that the yarns retain their relative position. Mirafi<sup>®</sup> FW700 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)	39.4 (2700)	25.4 (1740)
Grab Tensile Strength	ASTM D 4632	kN (lbs)	1.6 (370)	1.1 (250)
Grab Tensile Elongation	ASTM D 4632	%	15	15
Trapezoid Tear Strength	ASTM D 4533	kN (lbs)	0.4 (100)	0.3 (60)
Mullen Burst Strength	ASTM D 3786	kPa (psi)	3100.0 (450)	
Puncture Strength <sup>1</sup>	ASTM D 4833	kN (lbs)	0.5 (120)	
CBR Puncture Strength	ASTM D 6241	kN (lbs)	4.2 (950)	
Apparent Opening Size (AOS) <sup>2</sup>	ASTM D 4751	mm (U.S. Sieve)	0.212 (70)	
Percent Open Area	COE-02215	%	4 - 6	
Permittivity	ASTM D 4491	sec <sup>-1</sup>	0.28	
Permeability	ASTM D 4491	cm/sec	0.01	
Flow Rate	ASTM D 4491	l/min/m <sup>2</sup> (gal/min/ft <sup>2</sup> )	733.3 (18)	
UV Resistance (at 500 hours)	ASTM D 4355	% strength retained	90	

<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
Mass/Unit Area	ASTM D 5261	g/m <sup>2</sup> (oz/yd <sup>2</sup> )	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 <sup>2</sup> (yd <sup>2</sup> )	334 (400)
Estimated Roll Weight	---	kg (lbs)	74 (164)

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