



# Mirafi<sup>®</sup> HP570

Mirafi<sup>®</sup> HP570 geotextile is composed of high-tenacity polypropylene yarns, which are woven into a network such that the yarns retain their relative position. Mirafi<sup>®</sup> HP570 geotextile is inert to biological degradation and resistant to naturally encountered chemicals, alkalis, and acids.

Mechanical Properties	Test Method	Unit	Minimum Average Roll Value	
			MD	CD
Tensile Strength (at ultimate)	ASTM D4595	lbs/ft (kN/m)	4800 (70.0)	4800 (70.0)
Tensile Strength (at 2% strain)	ASTM D4595	lbs/ft (kN/m)	960 (14.0)	1320 (19.3)
Tensile Strength (at 5% strain)	ASTM D4595	lbs/ft (kN/m)	2400 (35.0)	2700 (39.4)
Tensile Strength (at 10% strain)	ASTM D4595	lbs/ft (kN/m)	4800 (70.0)	4800 (70.0)
Factory Seam Strength	ASTM D4884	lbs/ft (kN/m)	3000 (43.8)	
Flow Rate	ASTM D4491	gal/min/ft <sup>2</sup> (l/min/m <sup>2</sup> )	30 (1222)	
Permeability	ASTM D4491	cm/sec	0.05	
Permittivity	ASTM D4491	sec <sup>-1</sup>	0.40	
Apparent Opening Size (AOS) <sup>1</sup>	ASTM D4751	U.S. Sieve (mm)	30 (0.60)	
UV Resistance (at 500 hours)	ASTM D4355	% strength retained	80	

<sup>1</sup> ASTM D4751: AOS is a Maximum Opening Diameter Value

NOTE: To obtain Secant Modulus, divide tensile strength by the appropriate strain level (i.e. Secant Modulus at 5% = 2400/0.05 = 48000 lb/ft)

Filtration Properties	Test Method	Unit	Typical Value
Pore Size Distribution (O <sub>50</sub> )	ASTM D6767	micron	255
Pore Size Distribution (O <sub>95</sub> )	ASTM D6767	micron	385

Physical Properties	Unit	Typical Value
Mass/Unit Area (ASTM D5261)	oz/yd <sup>2</sup> (g/m <sup>2</sup> )	14.0 (475)
Roll Dimensions (length x width)	ft (m)	15 x 300 (4.5 x 91)
Roll Area	yd <sup>2</sup> (m <sup>2</sup> )	500 (418)
Estimated Roll Weight	lbs (kg)	475 (215)

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