



Mirafi[®] HP270

Mirafi[®] HP270 geotextile is composed of high-tenacity polypropylene yarns, which are woven into a network such that the yarns retain their relative position. Mirafi[®] HP270 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	kN/m (lbs/ft)	38.5 (2640)	35.9 (2460)
Tensile Strength (at 2% strain)	ASTM D4595	kN/m (lbs/ft)	7.0 (480)	8.6 (588)
Tensile Strength (at 5% strain)	ASTM D4595	kN/m (lbs/ft)	17.7 (1212)	19.8 (1356)
Tensile Strength (at 10% strain)	ASTM D4595	kN/m (lbs/ft)	34.1 (2340)	35.2 (2412)
Factory Seam Strength	ASTM D4884	kN/m (lbs/ft)	18.4 (1250)	
Flow Rate	ASTM D4491	l/min/m ² (gal/min/ft ²)	2037 (50)	
Permeability	ASTM D4491	cm/sec	0.04	
Permittivity	ASTM D4491	sec ⁻¹	0.70	
Apparent Opening Size (AOS) ¹	ASTM D4751	mm (U.S. Sieve)	0.60 (30)	
UV Resistance (at 500 hours)	ASTM D4355	% strength retained	80	

¹ ASTM D 4751: 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% = 1,212/0.05 = 24,240 lbs/ft)

Physical Properties	Test Method	Unit	Typical Value
Mass/Unit Area	ASTM D5261	g/m ² (oz/yd ²)	227 (6.7)
Roll Dimensions (width x length)	--	m (ft)	4.5 (15) x 91 (300)
Roll Area	--	m ² (yd ²)	418 (500)
Estimated Roll Weight	---	kg (lbs)	100 (220)

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