



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	Typical Value	
			MD	CD
Grab Tensile Strength	ASTM D 4632	kN (lbs)	1.5 (330)	1.4 (311)
Grab Tensile Elongation	ASTM D 4632	%	20	20
Trapezoid Tear Strength	ASTM D 4533	kN (lbs)	0.6 (144)	0.7 (167)
Mullen Burst Strength	ASTM D 3786	kPa (psi)	5167 (750)	
Puncture Strength	ASTM D 4833	kN (lbs)	0.7 (155)	
Flow Rate	ASTM D 4491	l/min/m ² (gal/min/ft ²)	2444 (60)	
Permeability	ASTM D 4491	cm/sec	0.05	
Permittivity	ASTM D 4491	sec ⁻¹	0.8	
Apparent Opening Size (AOS) ¹	ASTM D 4751	mm (U.S. Sieve)	0.43 (40)	
UV Resistance (at 500 hours)	ASTM D 4355	% strength retained	70	

¹ 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)	227.1 (6.7)
Roll Dimensions (width x length)	--	m (ft)	4 (13.1) x 50 (164)
Roll Area	--	m ² (yd ²)	201 (239)
Estimated Roll Weight	---	kg (lbs)	46 (102)

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