



Mirafi[®] HP770PET

Mirafi[®] HP770PET geotextile is composed of high tenacity polypropylene yarns in the machine direction and high tenacity polyester multifilament yarns in the cross-machine directions which are woven into a stable network such that the yarns retain their relative position. Mirafi[®] HP770PET 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
Grab Tensile Strength	ASTM D 4632	N (lbs)	2559 (575)	2448 (550)
Wide Width Tensile Strength (at ultimate)	ASTM D 4595	kN/m (lbs/in)	105.1 (600)	113.8 (650)
Wide Width Tensile Strength (at 2% Strain)	ASTM D 4595	kN/m (lbs/in)	21.0 (120)	23.6 (135)
Wide Width Tensile Strength (at 5% Strain)	ASTM D 4595	kN/m (lbs/in)	52.5 (300)	57.8 (330)
Wide Width Tensile Strength (at 10% Strain)	ASTM D 4595	kN/m (lbs/in)	96.3 (550)	105.1 (600)
Trapezoidal Tear Strength	ASTM D 4533	N (lbs)	1291 (290)	1558(350)
Apparent Opening Size (AOS) ¹	ASTM D 4751	mm (US Sieve)	0.60 (30)	
Permeability	ASTM D 4491	cm/sec	0.10	
Permittivity	ASTM D 4491	sec ⁻¹	0.7	
Water Flow	ASTM D 4491	l/m ² /min (g/min/ft ²)	2241 (55)	
Factory Seam Strength	ASTM D 4884	kN/m (lbs/ft)	700 (4000)	
UV Resistance (at 500 hours) (MD)	ASTM D 4355	% strength retained	70	
UV Resistance (at 250 hours) (CD)	ASTM D 4355	% strength retained	50	

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)	542 (16.0)
Width x length		m (ft)	4.7 (15)

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