

# Mirafi<sup>®</sup> HP270



Mirafi<sup>®</sup> HP270 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> HP270 geotextile is inert to biological degradation and resistant to naturally encountered chemicals, alkalis, and acids.

TenCate Geosynthetics Americas Laboratories are accredited by a2La (The American Association for Laboratory Accreditation) and Geosynthetic Accreditation Institute – Laboratory Accreditation Program (GAI-LAP). NTPEP Number: GTX-2012-01-044

Mechanical Properties	Test Method	Unit	Minimum Average Roll Value	
			MD	CD
Tensile Strength (at ultimate)	ASTM D4595	lbs/ft (kN/m)	2640 (38.5)	2460 (35.9)
Tensile Strength (at 2% strain)	ASTM D4595	lbs/ft (kN/m)	480 (7.0)	588 (8.6)
Tensile Strength (at 5% strain)	ASTM D4595	lbs/ft (kN/m)	1212 (17.7)	1356 (19.8)
Factory Sewn Seam	ASTM D4884	lbs/ft (kN/m)	1250 (18.4)	
Flow Rate	ASTM D4491	gal/min/ft <sup>2</sup> (l/min/m <sup>2</sup> )	50 (2037)	
Permeability	ASTM D4491	cm/sec	0.04	
Permittivity	ASTM D4491	sec <sup>-1</sup>	0.70	
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%=1212/0.05=24240 lbs/ft)

Physical Properties	Unit	Typical Value <sup>2</sup>
Roll Dimensions (width x length)	ft (m)	15 x 300 (4.5 x 91)
Roll Area	yd <sup>2</sup> (m <sup>2</sup> )	500 (418)

Factory Sewn Seam (ASTM D4884) and UV Resistance (ASTM D4355) are not covered by our current A2LA accreditation.

<sup>2</sup> ASTM D4439 Standard Terminology for Geosynthetics: typical value, *n*—for *geosynthetics*, the mean value calculated from documented manufacturing quality control test results for a defined population obtained from one test method associated with on specific property.

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