



# TerraTex HPG-77

## High Performance Geotextile

TerraTex HPG-77 is a polypropylene woven fabric. This engineered geotextile is stabilized to resist degradation due to ultraviolet exposure. It is resistant to commonly encountered soil chemicals, mildew and insects, and is non-biodegradable. Polypropylene is stable within a pH range of 2 to 13, making it one of the most stable polymers available for geotextiles today. TerraTex HPG-77 is manufactured to meet the following minimum average roll values:

Mechanical Properties	Test Method	Unit	Minimum Average Roll Value	
			MD	CD
Tensile Strength (at ultimate)	ASTM D 4595	kN/m (lbs/ft)	105.1 (7200)	70 (4800)
Tensile Strength (at 2% strain)	ASTM D 4595	kN/m (lbs/ft)	16.6 (1140)	21.0 (1440)
Tensile Strength (at 5% strain)	ASTM D 4595	kN/m (lbs/ft)	52.5 (3600)	43.8 (3000)
Tensile Strength (at 10% strain)	ASTM D 4595	kN/m (lbs/ft)	96.3 (6600)	70.0 (4800)
Flow Rate	ASTM D 4491	l/min/m <sup>2</sup> (gal/min/ft <sup>2</sup> )	611.1 (15)	
Permeability	ASTM D 4491	cm/sec	0.04	
Permittivity	ASTM D 4491	sec <sup>-1</sup>	0.23	
Apparent Opening Size (AOS)	ASTM D 4751	mm (U.S. Sieve)	0.60 (30)	
UV Resistance (at 500 hours)	ASTM D 4355	% strength retained	80	
<b>Physical Properties</b>	<b>Test Method</b>	<b>Unit</b>	<b>Typical Value</b>	
Mass/Unit Area	ASTM D 5261	g/m <sup>2</sup> (oz/yd <sup>2</sup> )	576.3 (17.0)	
Roll Dimensions (width x length)		m(ft)	4.5 (15)x 91 (300)	
Roll Area		m <sup>2</sup> (yd <sup>2</sup> )	418 (500)	
Estimated Roll Weight		kg (lbs)	242 (534)	

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