



Product Data Sheet

■ Carthage 6%™

Carthage 6%™ is a woven monofilament filtration geotextile of 100% polypropylene yarns. This product features *Percent Open Area* – a property found to be critical to long term filtration – and is unique to geotextiles woven with monofilament yarns. Values $\geq 4\%$ indicate that a sufficient quantity of ‘direct paths’ through the fabric exist to allow for the release of troublesome migrating fines and make them the ideal choice for most *any* long term filtration/drainage application.

AASHTO M-288-00: Carthage 6%™ exceeds the geotextile requirements for *Subsurface Drainage/Class 2* and *Permanent Erosion Control/Class 2* – (Both Applications: Percent *in-situ* soil passing 0.075 mm = both 15 to 50 and > 50).

PROPERTY	TEST METHOD	DATA	
		METRIC	ENGLISH
<input type="checkbox"/> Hydraulics / Filtration			
Apparent Opening Size (AOS)	ASTM D 4751	0.212 mm	70 US Std. Sieve
Percent Open Area	CW-02215	4 – 6%	
Permittivity	ASTM D 4491	0.28 sec ⁻¹	
Permeability		0.01 cm/sec	
Flow Rate		733 l/min/m ²	18 gpm/ft ²
<input type="checkbox"/> Mechanical			
Grab Tensile	ASTM D 4632	1646 x 1112 N	370 x 250 lbs
Grab Tensile Elongation			
Wide Width Tensile	ASTM D 4595	37.7 x 24.5 kN/m	215 x 140 lbs/in 2580 x 1680 lbs/ft
Mullen Burst	ASTM D 3786	3309 kPa	480 psi
Puncture	ASTM D 4833	535 N	120 lbs
Trapezoidal Tear	ASTM D 4533	445 x 312 N	100 x 70 lbs
<input type="checkbox"/> Endurance			
UV Resistance	ASTM D 4355	90% @ 500 hrs	
<input type="checkbox"/> Physical / Dimensional			
Mass Per Unit Area	ASTM D 5261	200 g/m ²	5.9 oz/yd ²
Standard Roll Sizes / Packaging (Special sizes, packaging and fabrication are available.)	Measured (Typical)	1.83 m x 91.44 m	6.0 ft x 300 ft
		167 m ²	200 yd ²
		45 kg	100 lbs
		35.6 cm diameter	14 in. diameter
		3.65 m x 91.44 m	12.0 ft x 300 ft
		334 m ²	400 yd ²
		82 kg	181 lbs
		35.6 cm diameter	14 in. diameter

Unless otherwise noted, all properties reported are Minimum Average Roll Values (MARV), and are calculated as the typical minus two standard deviations. Statistically, it yields a 97.7% degree of confidence that any sample taken during quality assurance testing will exceed the value reported.

The properties reported above are effective 01/14/04 and are subject to change without notice.

For more information on Percent Open Area, please see papers entitled *Why Percent Open Area?* and *Independent Research on Fabric Clogging* included with our information package.

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