



Product Data Sheet

■ Carthage 30%™

Carthage 30%™ 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.

PROPERTY	TEST METHOD	DATA	
		METRIC	ENGLISH
<input type="checkbox"/> Hydraulics / Filtration			
Apparent Opening Size (AOS)	ASTM D 4751	0.850 – 0.600 mm	20 – 30 US Sieve
Percent Open Area	CW-02215	20 – 30%	
Permittivity	ASTM D 4491	1.50 sec ⁻¹	
Permeability		0.2 cm/sec	
Flow Rate		8149 l/min/m ²	200 gpm/ft ²
<input type="checkbox"/> Mechanical			
Grab Tensile	ASTM D 4632	1135 x 1224 N	255 x 275 lbs
Grab Tensile Elongation			
Wide Width Tensile	ASTM D 4595	22.7 x 22.7 kN/m	130 x 130 lbs/in 1560 x 1560 lbs/ft
Mullen Burst	ASTM D 3786	2895 kPa	420 psi
Puncture	ASTM D 4833	600 N	135 lbs
Trapezoidal Tear	ASTM D 4533	178 x 222 N	40 x 50 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	205 g/m ²	6.1 oz/yd ²
Standard Roll Sizes / Packaging (Special sizes, packaging and fabrication are available.)	Measured (Typical)	3.65 m x 91.44 m 334.4 m ² 98.4 kg 30.5 cm diameter	12.0 ft x 300 ft 400 yd ² 217 lbs 12 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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