Carthage Mills **Product Data**

Geotextiles | Erosion Control | Geogrids | Geomembranes

Carthage 30%™

Carthage 30% is a woven filtration geotextile made of high-tenacity, monofilament polypropylene yarns which are woven into a stable network such that they retain their relative position. Carthage 30% is part of the **Carthage % Open Area Series** of woven monofilament filtration geotextiles, is inert to biological degradation and resistant to naturally encountered chemicals, alkalis, and acids.

PROPERTY	TEST METHOD	DATA	
		MARV	TYPICAL
☐ **Mechanical**			
Grab Tensile Strength	ASTM D 4632	350 x 280 lbs 1.56 x 1.25 kN	370 x 355 lbs 1.64 x 1.57 kN
Grab Tensile Elongation		30% x 18%	37% x 24%
Trapezoidal Tear	ASTM D 4533	100 x 98 lbs 0.44 x 0.43 kN	118 x 127 lbs 0.52 x 0.56 kN
CBR Puncture	ASTM D 6241	870 lbs 3.86 kN	-
☐ **Endurance**			
UV Resistance	ASTM D 4355	90% @ 500 hrs	90% @ 500 hrs
☐ **Hydraulics / Filtration**			
Permittivity(1)	ASTM D 4491	4.0 sec^{-1}	7.3 sec^{-1}
Water Flow Rate(1)		300 g/pm/ft^2 12,223 l/min/m^2	550 g/pm/ft^2 22,410 l/min/m^2
Percent Open Area (3)	CW-02215	20 - 30%	
Apparent Opening Size (AOS) (1) (2)	ASTM D 4751	30 US Std. Sieve 0.60 mm	30 US Std. Sieve 0.60 mm
☐ **Physical**		**METRIC**	**ENGLISH**
Standard Roll Sizes / Packaging / Weight (Custom fabrication and packaging are available.)	Measured (Typical)	3.65 m x 91.44 m 334.4 m^2 71.214 kg	12.0 ft x 300 ft 400 yd^2 157 lbs

NOTES: Mullen Burst Strength ASTM D 3786 is no longer recognized by ASTM D35 on Geosynthetics. Puncture Strength ASTM D 4833 is not recognized by AASHTO M 288 and has been replaced with CBR Puncture ASTM D 6241.

(1) At the time of manufacturing. Handling, storage and shipping may change these properties.
(2) AOS, typically referred to as a MARV, is actually reported as a MAXIMUM allowable opening when in English US Sieve units; or as the SMALLEST allowable opening when in Metric units (mm).
(3) Typical Values

- Unless otherwise stated, all values stated here are Minimum Average Roll Values (MARV).
- The properties reported above are effective 01-01-2026 and are subject to change without notice.

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