

Carthage Mills Product Data

Geotextiles | Erosion Control | Geogrids | Geomembranes



l Carthage 15%™

Carthage 15% 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 15% 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	
		METRIC	ENGLISH
☐ Mechanical			
Grab Tensile Strength	ASTM D 4632	1.62 x 0.89 kN	365 x 200 lbs
Grab Tensile Elongation	A31M D 4032	24% x 10%	
Trapezoidal Tear	ASTM D 4533	0.51 x 0.33 kN	115 x 75 lbs
CBR Puncture	ASTM D 6241	3.00 kN	675 lbs
□ Endurance			
UV Resistance	ASTM D 4355	90% @ 500 hrs	
☐ Hydraulics / Filtration			
Permittivity ⁽¹⁾	ASTM D 4491 2.10 sec ⁻¹		
Water Flow Rate ⁽¹⁾	ASTM D 4491	5907 lpm/m ²	145 gpm/ft ²
Percent Open Area	CW-02215	10-15%	
Apparent Opening Size (AOS) (1) (2)	ASTM D 4751	0.425 mm	40 US Std. Sieve
□ Physical		1.83 m x 91.5 m 167 m ² 39.6 kg	6.0 ft x 300 ft 200 yd² 87.5 lbs
Standard Roll Sizes / Packaging / Weight (Custom fabrication and packaging are available.)	Measured (Typical)	3.65 m x 91.44 m 334.4 m ² 79 kg 3.81 m x 91.44 m	12.0 ft × 300 ft 400 yd ² 175 lbs 12.5 ft × 300 ft
		3.81 m x 91.44 m 348.39 m ² 81 kg	12.5 ft x 300 ft 416.7 yd ² 178 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).
- Unless otherwise stated, all values stated here are Minimum Average Roll Values (MARV).
- The properties reported above are effective 01-01-2024 and are subject to change without notice.

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