



NSF/ANSI Standard 61 -
Drinking Water System Components



AquaFuse Liner™ M1000 is a 40 mil (1.0 mm) thick, polyethylene Reinforced Composite Geomembrane (RCG), specifically designed for use in water retention and containment applications. Weld Easier. Install Faster. Contain Better. The durable, stress crack resistant, lightweight construction of AquaFuse Liner™ M1000 provides outstanding performance in many different climates and environmental conditions.

APPLICATIONS

AquaFuse Liner™ M1000 is ideal for containment applications such as agriculture, aquaculture, mining and energy, secondary containment, wastewater lagoons, and landfill covers. Retention applications include golf course ponds, stormwater management, irrigation storage, canal liners, and potable water reservoirs.

Properties	Test Method	Typical Value ¹		Min. Ave. Roll Value ²	
		Imperial	Metric	Imperial	Metric
Weight	ASTM D751	20.8 oz./yd ²	705 g/m ²	18 oz./yd ²	610 g/m ²
Thickness	ASTM D751	40 mil	1.01 mm	36 mil	0.91 mm
Strip Tensile Strength (MD)	ASTM D7003	303 lbf	1348 N	250 lbf	1100 N
Strip Tensile Strength (CD)	ASTM D7003	265 lbf	1179 N	250 lbf	1100 N
Strip Tensile Elongation (MD)	ASTM D7003	22%		20%	
Strip Tensile Elongation (CD)	ASTM D7003	22%		20%	
Tongue Tear (MD)	ASTM D5884	60 lbf	302 N	50 lbf	225 N
Tongue Tear (CD)	ASTM D5884	626 lbf	334 N	50 lbf	225 N
CBR Puncture	ASTM D6241	1400 lbf	6228 N	1000 lbf	4400 N
Index Puncture Resistance	ASTM D4833	242 lbf	1067 N	200 lbf	890 N
Hydrostatic Resistance	ASTM D751	740 lb/in ²	5102 kPa	700 lb/in ²	4800 kPa
Dimensional Stability ³	ASTM D1204	2.86%		3%	
Water Vapor Transmission ⁴	ASTM E96 (BW)	0.08 G/M ² day		< 0.3 g/m ² -day	
High Pressure Oxidation Induction Time ⁴	ASTM D5885	>400 minutes		>400 minutes	
UV Resistance (Fluorescent Light Method) ⁴	ASTM D7238				
a) Strength & Elongation retained after 10,000 light hours	ASTM D7003	> 90% retained		> 50% retained	
b) High Pressure OIT (minutes average) % retained after 1,600 hours	ASTM D5885	> 50% retained		> 50% retained	
Grab Tensile Strength (MD)	ASTM D7004	463 lbf	2504 N		
Grab Tensile Strength (CD)	ASTM D7004	397 lbf	1766 N		
Trapezoidal Tear (MD)	ASTM D4533	73 lbf	325 N		
Trapezoidal Tear (CD)	ASTM D4533	69 lbf	307 N		
Hydraulic Conductivity	ASTM E96 (BW)	1.0 x 10 ⁻¹⁴ cm/sec			
Carbon Black Content	ASTM D4218	> 2%			
Low Temperature Brittleness	ASTM D2136	Pass (@ -60°F)	Pass (@ -51°C)		
Standard Roll Width		12 ft	3.7 m		
Standard Roll Length		1250 ft	381 m		
Approximate Roll Weight		2200 lb	998 kg		

¹ Typical values are for reference and are not intended as limiting specifications. ³ Dimensional Stability MARV is a maximum value in accordance with GRI-GM30.

² Minimum Average Roll Values (MARV) are in accordance with GRI-GM30.

⁴ This test is performed once per formulation in accordance with GRI-GM30.

This publication should not be construed as engineering advice. While information contained in this publication is accurate to the best of our knowledge, CMF Global does not warrant its accuracy or completeness. The user of the products should assume sole responsibility for the final determination of the suitability of the information and the products for the contemplated and actual use.



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