



NSF/ANSI Standard 61 -
Drinking Water System Components



AquaFuse Liner™ M750 a 30 mil (0.76 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™ M750 provides outstanding performance in many different climates and environmental conditions.

APPLICATIONS

AquaFuse Liner™ M750 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	18 oz./yd ²	610 g/m ²	16 oz./yd ²	540 g/m ²
Thickness	ASTM D751	30 mil	0.76 mm	27 mil	0.69 mm
Strip Tensile Strength (MD)	ASTM D7003	246 lbf	1094 N	225 lbf	1000 N
Strip Tensile Strength (CD)	ASTM D7003	272 lbf	1210 N	225 lbf	1000 N
Strip Tensile Elongation (MD)	ASTM D7003	21%		20%	
Strip Tensile Elongation (CD)	ASTM D7003	21%		20%	
Tongue Tear (MD)	ASTM D5884	56 lbf	249 N	45 lbf	200 N
Tongue Tear (CD)	ASTM D5884	56 lbf	249 N	45 lbf	200 N
CBR Puncture	ASTM D6241	1348 lbf	5996 N	700 lbf	3100 N
Index Puncture Resistance	ASTM D4833	230 lbf	1023 N	180 lbf	800 N
Hydrostatic Resistance	ASTM D751	729 lb/in ²	5026 kPa	500 lb/in ²	3400 kPa
Dimensional Stability ³	ASTM D1204	1.52%		3%	
Water Vapor Transmission ⁴	ASTM E96(BW)	0.09 G/M ² day		< 0.4 g/m ² -day	
High Pressure Oxidation Induction Time ⁴	ASTM D5885	>400 minutes		>400 minutes	
UV Resistance (Fluorescent Light Method) ⁴	ASTM D5885				
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	385 lbf	1713 N		
Grab Tensile Strength (CD)	ASTM D7004	385 lbf	1713 N		
Trapezoidal Tear (MD)	ASTM D4533	66 lbf	294 N		
Trapezoidal Tear (CD)	ASTM D4533	66 lbf	294 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		1500 ft	457 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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