



RhinoMat® 1000a40mil(1.0mm)thick,polyethyleneReinforcedComposite 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 RhinoMat® 1000 provides outstanding performance in many different climates and environmental conditions.

## APPLICATIONS

RhinoMat® 1000 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.

PROPERTY	TEST/METHOD	TYPICAL VALUE <sup>1</sup>	
		ENGLISH	METRIC
Weight	ASTM D5261	20.8 oz./yd <sup>2</sup>	705 g/m <sup>2</sup>
Thickness	ASTM D751	40 mil	1.01 mm
Strip Tensile Strength (MD)	ASTM D7003	303 lbf	1348 N
Strip Tensile Strength (CD)	ASTM D7003	265 lbf	1179 N
Strip Tensile Elongation (MD)	ASTM D7003	22%	
Strip Tensile Elongation (CD)	ASTM D7003	22%	
Tongue Tear (MD)	ASTM D5884	50 lbf	222 N
Tongue Tear (CD)	ASTM D5884	50 lbf	222 N
CBR Puncture	ASTM D6241	1400 lbf	6228 N
Index Puncture Resistance	ASTM D4833	205 lbf	912 N
Hydrostatic Resistance	ASTM D751	680 lb/in <sup>2</sup>	3025 kPa
Dimensional Stability	ASTM D1204	2.86%	
Water Vapor Transmission	ASTM E96	0.08 G/M <sup>2</sup> day	
UV Resistance (Fluorescent Light Method) <sup>2</sup>	ASTM D7238		
a) Strength & Elongation retained after 10,000 light hours	ASTM D7003	> 90% retained	
b) High Pressure OIT (minutes average) % retained after 16,000 hours	ASTM D5885	> 50% retained	
Grab Tensile Strength (MD)	ASTM D751	463 lbf	2504 N
Grab Tensile Strength (CD)	ASTM D751	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 ('B')	1.0 x 10 <sup>-14</sup> cm/sec	
Carbon Black Content	ASTM D4218	> 2%	
Accelerated UV Weathering <sup>3</sup>	ASTM G154	> 90% @ 10,000 hrs.	
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

<sup>1</sup> Typical values are for reference and are not intended as limiting specifications.

<sup>2</sup> Test samples were exposed to UV radiation using this method prior to evaluation of material property changes.

<sup>3</sup> Values based on Q.U.V. testing with A-340 lamps (8 hours UV @60°C, 4 hours condensation @ 40°C).



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