



RhinoMat® 500 is a 24 mil (0.61 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 RhinoMat® 500 provides outstanding performance in many different climates and environmental conditions.

APPLICATIONS

RhinoMat® 500 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 ¹		MIN. AVE. ROLL VALUE	
		ENGLISH	METRIC	ENGLISH	METRIC
Weight	ASTM D751	12.3 oz./yd ²	415 g/m ²	10 oz./yd ²	340 g/m ²
Thickness	ASTM D751	24 mil	0.61 mm	22 mil	0.56 mm
Strip Tensile Strength (MD)	ASTM D7003	265 lbf	1179 N	200 lbf	900 N
Strip Tensile Strength (CD)	ASTM D7003	229 lbf	1019 N	200 lbf	900 N
Strip Tensile Elongation (MD)	ASTM D7003	22%		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	1237 lbf	5502 N	500 lbf	1800 N
Index Puncture Resistance	ASTM D4833	200 lbf	890 N	160 lbf	700 N
Hydrostatic Resistance	ASTM D751	525 lb/in ²	3620 kPa	300 lb/in ²	2000 kPa
Dimensional Stability	ASTM D1204	3%		3%	
Water Vapor Transmission ²	ASTM E96(BW)	0.14 G/M ² day		< 0.5 g/m ² -day	
UV Resistance (Fluorescent Light Method) ²	ASTM D7238				
a) Strength & Elongation retained after 10,000 light hours	ASTM D7003	> 90% retained		> 50% retained	
Grab Tensile Strength (MD)	ASTM D7004	355 lbf	1579 N		
Grab Tensile Strength (CD)	ASTM D7004	342 lbf	1521 N		
Trapezoidal Tear (MD)	ASTM D4533	63 lbf	280 N		
Trapezoidal Tear (CD)	ASTM D4533	63 lbf	280 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	610 m		
Approximate Roll Weight		2200 lb	975 kg		

¹Typical values are for reference and are not intended as limiting specifications.

²This method is performed once per formulation.



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