

APPLICATION

RhinoMat® 500 a 24 mil (0.61 mm) thick, polyethylene Reinforced Composite Geomembrane (RCG). 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	200 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.



This publication should not be construed as engineering advice. While information contained in this publication is accurate to the best of our knowledge, Owens Corning 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. Owens Corning specifically disclaims all warranties, express or implied, including without limitation, warranties of merchantability or fitness for a particular purpose, or arising from provision of samples, a course of dealing or usage of trade.

THE STRENGTH OF THE RHINO THE POWER OF OWENS CORNING™



**WELD EASIER.
INSTALL FASTER.
CONTAIN BETTER.®**

FOR WATER RETENTION, CONTAINMENT, AQUACULTURE, POND & CANAL LINING APPLICATIONS



THE STRENGTH OF THE RHINO

STRONG CONSTRUCTION

- 24 mil (.61 mm) thick geomembrane
- Inner woven core layer provides dimensional stability with impressive tensile and tear strength

OUTSTANDING PROTECTION

- Puncture, abrasion and chemical resistant construction
- Excellent hydrostatic resistance
- All layers contain UV protection

MEETS INDUSTRY STANDARDS

- Non-toxic, no PVC or other hazardous materials used in the construction of the geomembrane
- Impressive UV, ozone and oxidation resistance

THE POWER OF OWENS CORNING™

GLOBAL BUSINESS LEADER

- Fortune 500® Since 1955
- 3 Global, Market Leading Businesses
- Dow Jones Sustainability World Index

TECHNICAL EXCELLENCE

- History of Market Changing Innovation
- 11 Science & Technology Centers worldwide
- RhinoLab simulated mfg. line (1:15 scale)

COMMITMENT TO SAFETY

- Unconditionally committed to occupational health and safety
- A proud member of the National Safety Council since 1943
- Awarded the National Safety Council Green Cross for Safety



UV resistant SurFlex™ technology provides excellent welding characteristics, reduces stress cracking and makes it easy to seam in the factory or field

HDPE HIGH STRENGTH WOVEN CORE

For outstanding dimensional strength and stability

ENGINEERED LLDPE/LDPE COATING

For flexibility, chemical resistance and protection against UV, ozone and oxidation

BE WATER SMART.

RhinoMat® 500 a 24 mil (0.61 mm) thick, polyethylene Reinforced Composite Geomembrane (RCG), specifically designed for use in water retention and containment applications. The durable, stress crack resistant, lightweight construction provides outstanding performance in many different climates and environmental conditions.

WELD EASIER.



- Made with SurFlex™ technology, a polyolefin blend surface film which allows for superior thermal fusion welding
- Designed for optimal welding temperature and speed to create exceptional seams
- Flexible construction enables efficient seaming of a wide variety of panel shapes and sizes

INSTALL FASTER.



- Wide width flexible sheets facilitate factory fabrication to reduce field seaming time
- Factory fabrication helps ensure higher quality welds which require fewer time-consuming destructive field tests
- Allows for customized panels to accelerate installation

CONTAIN BETTER.



- High strength woven core and engineered coatings provide outstanding longevity and chemical resistance
- Hydrostatic, puncture, and abrasion resistance stands up to the toughest installation, maintenance and environmental stresses