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** | **MIN. AVE. ROLL VALUE**
--- | --- | --- | ---
| | | ENGLISH | METRIC | ENGLISH | METRIC
Weight ASTM D751 | 12.3 oz./yd² | 415 g/m² | 12 oz./yd² | 340 g/m²
Thickness ASTM D751 | 24 mil | 608 mm | 22 mil | 568 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 Elevation (MD) ASTM D7003 | 22% | 20% | --- | ---
Strip Tensile Elevation (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
CRU Puncture ASTM D9431 | 1257 lbf | 5582 N | 1051 lbf | 4682 N
Index Puncture Resistance ASTM D4633 | 208 lbf | 900 N | 180 lbf | 760 N
Hydrostatic Resistance ASTM D751 | 202 lbf/in² | 3020 kPa | 180 lbf/in² | 2600 kPa
Dimensional Stability ASTM D1204 | --- | --- | 2% | 2%
Water Vapor Transmission ASTM E96 | 0.14 g/m² day | < 0.5 g/m² day
UV Resistance (Fluorescent Light Method) ASTM D7238 | --- | --- | --- | ---
Grab Tensile Strength (MD) ASTM D7003 | > 50% retained | > 50% retained
Grab Tensile Strength (CD) ASTM D7003 | > 50% retained | > 50% retained
Tongue Tear (MD) ASTM D4533 | 63 lbf | 280 N | 63 lbf | 280 N
Tongue Tear (CD) ASTM D4533 | 63 lbf | 280 N | 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 ASTM D751 | 12 ft | 3.7 m | --- | ---
Standard Roll Length ASTM D751 | 1500 ft | 610 m | --- | ---
Approximate Roll Weight ASTM D751 | 2200 lb | 975 kg | --- | ---

Typical values are for reference and are not intended as limiting specifications.
This method is performed once per formulation.

The Strength of the Rhino
The Power of Owens Corning™
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

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

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.

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 1945
- Awarded the National Safety Council Green Cross for Safety

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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

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

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