

APPLICATION

RhinoMat® 750 a 30 mil (0.76 mm) thick, polyethylene Reinforced Composite Geomembrane (RCG). RhinoMat® 750 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 ²	
		ENGLISH	METRIC	ENGLISH	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 D7238				
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		

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

²Minimum Average Roll Values (MARV) are in accordance with GRI-GM30.

³Dimensional Stability MARV is a maximum value in accordance with GRI-GM30.

⁴This test is performed once per formulation in accordance with GRI-GM30.



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THE STRENGTH OF THE RHINO THE POWER OF OWENS CORNING™



Rhino Mat 750



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

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



THE STRENGTH OF THE RHINO

STRONG CONSTRUCTION

- 30 mil (.76 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® 750 a 30 mil (0.76 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