RhinoMat® 1000 Applications:

**Containment:**
- Agriculture & Aquaculture
- Mining & Energy
- Secondary Containment

**Retention:**
- Golf Course Ponds
- Stormwater Management
- Irrigation Storage

RhinoMat® 1000 conforms to the properties below, and is manufactured at an Owens Corning facility having achieved ISO 9001:2000 certification. Owens Corning tests RhinoMat® 1000 both through independent, third party laboratories, and through internal quality control testing in laboratories accredited through the Geosynthetic Accreditation Institute – Laboratory Accreditation Program (GAI-LAP).

### RhinoMat® 1000 TDS

**Effective Date:** June 1, 2017

**Notes:**
- Typical values represent average test results for the sample size, with ± 10% variance
- Weight ASTM D5261 20.8 oz./yd² 705 g/m² 20.3 oz./yd² 688 g/m²
- Thickness ASTM D751 40 mil 1.01 mm 36 mil 0.92 mm
- Strip Tensile Strength (MD) ASTM D7003 303 lbf 1348 N 285 lbf 1268 N
- Strip Tensile Elongation (MD) ASTM D7003 22% 20%
- Tongue Tear (MD) ASTM D5884 60 lbf 302 N 50 lbf 222 N
- CBR Puncture ASTM D6241 1400 lbf 6228 N 1360 lbf 6050 N
- Index Puncture Resistance ASTM D4833 242 lbf 1076 N 220 lbf 979 N
- Hydrostatic Resistance ASTM D751 740 lb/in² 5102 kPa 707 lb/in² 4875 kPa
- Dimensional Stability ASTM D1204 2.86% 1.01 mm
- Water Vapor Transmission ASTM E96 0.08 g/m²-day
- UV Resistance (Fluorescent Light Method) ASTM D7238 > 90% retained
- Carboxyl Content ASTM D4218 > 2%
- Accelerated UV Weathering ASTM G154 > 90% retained
- Low Temperature Brittleness ASTM D2136 Pass (−60°F) Pass (−51°C)

**PROPERTY** | **TEST/METHOD** | **TYPICAL VALUE** | **MIN AVE. ROLL VALUE**
---|---|---|---
Weight | ASTM D5261 | 20.8 oz./yd² 705 g/m² | 20.3 oz./yd² 688 g/m²
Thickness | ASTM D751 | 40 mil 1.01 mm | 36 mil 0.92 mm
Strip Tensile Strength (MD) | ASTM D7003 | 303 lbf 1348 N | 285 lbf 1268 N
Strip Tensile Elongation (MD) | ASTM D7003 | 22% | 20%
Strip Tensile Elongation (CD) | ASTM D7003 | 22% | 20%
Tongue Tear (MD) | ASTM D5884 | 60 lbf 302 N | 50 lbf 222 N
Tongue Tear (CD) | ASTM D5884 | 62 lbf 334 N | 50 lbf 222 N
CBR Puncture | ASTM D6241 | 1400 lbf 6228 N | 1360 lbf 6050 N
Index Puncture Resistance | ASTM D4833 | 242 lbf 1076 N | 220 lbf 979 N
Hydrostatic Resistance | ASTM D751 | 740 lb/in² 5102 kPa | 707 lb/in² 4875 kPa
Dimensional Stability | ASTM D1204 | 2.86% | 1.01 mm
Water Vapor Transmission | ASTM E96 | 0.08 g/m²-day | 0.08 g/m²-day
UV Resistance (Fluorescent Light Method) | ASTM D7238 | > 90% retained | > 90% retained
Carboxyl Content | ASTM D4218 | > 2% | > 2%
Accelerated UV Weathering | ASTM G154 | > 90% retained | > 90% retained
Low Temperature Brittleness | ASTM D2136 | Pass (−60°F) Pass (−51°C) | Pass (−60°F) Pass (−51°C)
Standard Roll Width | ASTM D751 | 12 ft 3.7 m | 12 ft 3.7 m
Standard Roll Length | ASTM D751 | 1250 ft 381 m | 1250 ft 381 m
Approximate Roll Weight | | 2200 lb 998 kg | 2200 lb 998 kg

OwensCorning.com/RhinoMat

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RhinoMat® 1000 is a 40 mil (1.0 mm) geomembrane specifically designed for use in water retention and containment applications to Weld Easier. Install Faster. Contain Better.™ For applications where containment is critical, the durable, stress crack resistant, lightweight construction of RhinoMat® geomembrane provides maximum performance in all climates and environmental conditions.

**RhinoMat® 1000 is a Smart Choice**

**Features Strong Construction**
- 40 mil (1.0 mm), our thickest geomembrane
- Inner woven core layer provides dimensional stability with impressive tensile and tear strength
- Puncture, abrasion and chemical resistant construction
- Outstanding hydrostatic resistance
- All layers contain UV protection

**Meets Industry Standards**
- GRI-GM30 Compliant – RhinoMat is the first portfolio of products to meet this standard
- Non-toxic, no PVC or other hazardous materials used in the construction of the geomembrane
- Impressive UV, ozone and oxidation resistance

**Provides Warranty Protection**
- Standard warranty: 20-years buried, 10-years exposed
- Available special registered warranty (clear water applications): 25-years buried, 20-years exposed

**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 fabricated seaming capability ensures higher quality welds which require fewer time-consuming destructive field tests
- Allows for large factory fabricated panels to be customized to accelerate project field installation

**CONTAIN BETTER.**
- High strength woven core and engineered coatings provide outstanding longevity and chemical resistance
- Meets or exceeds properties of Category 1 (Severe) of the GRI-GM30 specification from the Geosynthetic Institute (GSI)
- Hydrostatic, puncture, and abrasion resistance stands up to the toughest installation, maintenance and environmental stresses

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**ENGINEERED LLDPE/LDPE COATING**
For flexibility, chemical resistance and protection against UV, ozone and oxidation

**HDPE HIGH STRENGTH WOVEN CORE**
For outstanding dimensional strength and stability

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

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**BURIED LIMITED WARRANTY**
20 YEARS

**EXPOSED LIMITED WARRANTY**
10 YEARS