



Woven Coated Polyethylene Geomembrane

RhinoSkin® 40 DS is a nominal 40 mil (1.0 mm) thick Woven Coated Polyethylene (WCPE) geomembrane used for temporary cover systems and water and waste water containment. RhinoSkin® geomembranes are specifically designed using no post-consumer resin and contain a UV resistance package in each layer. The durable lightweight construction of RhinoSkin® 40 DS provides outstanding performance in many different climates and environmental conditions.

APPLICATIONS

RhinoSkin® 40 DS's proprietary construction using a high strength HDPE woven core and engineered LDPE/LLDPE coating make it ideal for the following applications:

WATER CONTAINMENT LINERS

- Stormwater Management
- Oil & Gas Fracking Pad

WATER RETENTION LINERS

- Golf Course Ponds
- Agricultural Reservoirs
- Irrigation Reservoirs & Canals
- Potable Water Reservoirs

| PROPERTY | TEST METHOD | | TYPICAL VALUE ¹⁵ | | TESTING FREQUENCY | |
|--|-------------------|----|--------------------------------------|----------------------|--------------------------|------------|
| | | | IMPERIAL | METRIC | IMPERIAL | METRIC |
| Thickness | ASTM D751 | | 40 mils | 1.0 mm | Every Roll | Every Roll |
| Mass per Area | ASTM D751 | | 18 oz/yd ² | 610 g/m ² | Every Roll | Every Roll |
| Strip Tensile Strength ² | ASTM D7003 | MD | 430 lb _f /in | 75 kN/m | 20,000 lb | 9,000 kg |
| | | CD | 390 lb _f /in | 68 kN/m | | |
| Grab Strength ² | ASTM D7004 | MD | 650 lb _f | 2,890 N | 20,000 lb | 9,000 kg |
| | | CD | 650 lb _f | 2,890 N | | |
| Tongue Tear ² | ASTM D5884 | MD | 135 lb _f | 600 N | 20,000 lb | 9,000 kg |
| | | CD | 135 lb _f | 600 N | | |
| Index Puncture | ASTM D4833 | | 300 lb _f | 1,330 N | 45,000 lb | 20,000 kg |
| CBR Puncture | ASTM D6241 | | 2,250 lb _f | 10,000 N | 45,000 lb | 20,000 kg |
| Hydrostatic Resistance ⁴ | ASTM D751 | | 470 lb _f /in ² | 3,240 kPa | 45,000 lb | 20,000 kg |
| UV Resistance³ | ASTM D7238 | | Typical Value¹ | | Testing Frequency | |
| Strip Tensile Strength and Elongation ² | ASTM D7003 | MD | >90% retained | | Once per Formulation | |
| | | CD | | | | |

¹ Values are typical and are not limiting specifications.
² MD & CD refers to machine and cross or transverse machine direction, respectively.
³ 2,000-hour UV Resistance by the fluorescent light method conducted in general accordance with ASTM D7238 using an 8-hour UV cycle at 60°C followed by 4-hour condensation at 40°C.
⁴ Hydrostatic Resistance is determined in general accordance with ASTM D751, Procedure A using a Mullen® Model HAH testing device.
⁵ The soft conversion of units as described in GRI-GM30 has been applied as well as the applicable rounding of the values.

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