

The XR-5 line of geomembranes are widely known as the most chemically resistant, highest strength and top-notch quality liners available on the market. They have been developed to contain and protect against acids, oils, methane, and alkalis. These features allow XR-5 materials to be used in some of the harshest environments on earth. Many varieties of XR-5 are available for applications from potable water to oil containment.

- Tank Linings
- Industrial Process Wastewater
- Oil Field Pit Liners
- Geofoam Coverage
- Oil Booms
- Leachate Ponds
- Secondary Containment
- Mine Tailings
- Detention and Retention Ponds
- Wastewater Ponds

Certified Properties

| | ASTM | 8130 | 8138 |
|--|--------|--|-----------------------------------|
| Base Fabric Type | D-751 | Polyester | Polyester |
| Base Fabric Weight | | 6.5 oz/yd ² | 6.5 oz/yd ² |
| Thickness | D-751 | 30 mils | 40 mils |
| Weight | D-751 | 30.0 ± 2 oz/yd ² | 38.0 ± 2 oz/yd ² |
| Tear Strength – Trapezoid Tear | D-4533 | 40/50 lb min | 40/55 lb min |
| Breaking Yield Strength – Grab Tensile | D-751 | 550/550 lb min | 550/550 lb min |
| Low Temperature Resistance – 4 hrs | D-2136 | Pass @ -30°F | Pass @ -30°F |
| Dimensional Stability - 212°F – 1 hr | D-1204 | 0.5% max each direction | 0.5% max each direction |
| Bursting Strength – Ball Tip | D-751 | 750 lb min | 750 lb min |
| Hydrostatic Resistance – Procedure A | D-751 | 800 psi min | 800 psi min |
| Blocking Resistance - 180° F | D-751 | #2 Rating max | |
| Ply Adhesion – Type A | D-413 | 15 lb/in min | 15 lb/in min |
| Abrasion Resistance – H-18 Wheel 1 kg Load | D-3389 | 2000 cycles (min) before fabric exposure | |
| Weathering Resistance (Carbon Arc) | G-153 | 8000 hrs (min) – No appreciable changes or stiffening or cracking of coating | |
| Water Absorption – Section 12 for 7 days | D-471 | 0.025 kg/m ² max @ 70°F 0.14 kg/m ² max @ 212°F | |
| Wicking | D-751 | 1/8 in max | 1/8 in max |
| Puncture Resistance | D-4833 | 275 lb min | 275 lb min |
| Coefficient of Thermal Expansion/Contraction | D-696 | 8 x 10 ⁻⁶ in/in/°F max | 8 x 10 ⁻⁶ in/in/°F max |

Seam Strength

| | | | |
|---|-------|-------------|-------------|
| Bonded Seam Strength – Grab Test Pro. A | D-751 | 550 lbs min | 550 lbs min |
| Peel Strength (lbs/in. min.) | D-882 | 20 | 20 |