

XR-5 is widely known as being one of the highest quality and most chemically resistant Geomembranes available. XR-5 is also one of the highest-strength Geomembranes on the market. It was 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 from potable water to oil containment.

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

<b>Certified Properties</b>	<b>ASTM</b>	<b>8130</b>	<b>8138</b>
Base Fabric Type	D-751	Polyester	Polyester
Base Fabric Weight		6.5 oz/yd <sup>2</sup>	6.5 oz/yd <sup>2</sup>
Thickness	D-751	30 mils	40 mils
Weight	D-751	30.0 ± 2 oz/yd <sup>2</sup>	38.0 ± 2 oz/yd <sup>2</sup>
Tear Strength – Trapezoid Tear	D-4533	40/50 lb min	40/50 lb min
Breaking Yield Strength – Grab Tensile	D-751	550/550 lb min	550/550 lb min
Low Temperature Resistance – 4 hr	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 18 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 <sup>2</sup> max @ 70°F 0.14 kg/m <sup>2</sup> 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 <sup>-6</sup> in/in/°F max	8 x 10 <sup>-6</sup> in/in/°F max

### Seam Strength

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