

High Performance XR-5® 8130 Reinforced Geomembrane

| XR-5® 8130 Reinforced | Test Method | Standard | Metric |
|---|--------------------------------------|---|--|
| | | | |
| Base Fabric Type Base Fabric Weight (nominal) | ASTM D751 | Polyester 6.5 oz/yd² | Polyester 220 g/m ² |
| Thickness | ASTM D751 | 30.0 mils min | 0.76 mm min |
| Weight | ASTM D751 | 30.0 ± 2 oz/yd² | 1017 ±70 g/m² |
| Tear Strength | ASTM D4533 Trapezoid Tear | 40/55 lb min | 175/245 N min |
| Breaking Yield Strength | ASTM D751 Grab Tensile | 550/550 lb min | 2448/2448 N min |
| Low Temperature Resistance | ASTM D2136 4 hr - 1/8" mandrel | Pass @ -30° F | Pass @ -34° C |
| Dimensional Stability | ASTM D1204 212° F / 100° C - 1 hr | 0.5% max each direction | 0.5% max each direction |
| Adhesion Heat Sealed Seam | ASTM D751 Dielectric Weld | 40 lb/2 in min | 17.5 daN/5 cm min |
| Dead Load Seam Strength | ASTM D751 4-hour test | 2 in seam, 4 hrs, 1 in strip Pass 240 lb @ 70° F Pass 120 lb @ 160° F | 5 cm seam, 4 hrs, 2.5 cm strip Pass 1068 N/2.54cm @21° C Pass 534 N/2.54cm @ 70° C |
| Bursting Strength | ASTM D751 Ball Tip | 750 lb min | 3330 N min |



High Performance XR-5® 8130 Reinforced Geomembrane

| XR-5® 8130 Reinforced | Test Method | Standard | Metric |
|--|--|--|---|
| Hydrostatic Resistance | ASTM D751 Procedure A | 800 psi min | 5.51 MPa min |
| Blocking Resistance | ASTM D751 180° F / 82° C | #2 Rating max | |
| Adhesion - Ply | ASTM D413 Type A | 15 lb/in min or Film Tearing Bond | 13 daN/5 cm min or Film Tearing Bond |
| Bonded Seam Strength | ASTM D751 Grab Test Method Procedure A | 550 lb min | 2450 N min |
| Abrasion Resistance | ASTM D3389 H-18 Wheel 1kg Load | 2000 cycles (min) before fabric exposure 50 mg/100 cycles maximum weight loss | |
| Weathering Resistance | ASTM G153 (Carbon-Arc) | 8000 hrs (min)-No appreciable changes or stiffening or cracking of coating | |
| Water Absorption | ASTM D471 Section 12 7 Days | 0.025 kg/m² max @ 70° F/21° C 0.14 kg/m² max @ 212° F/100° C | |
| Wicking | ASTM D751 | 1/8 in max | 0.3 cm max |
| Puncture Resistance | ASTM D4833 | 275 lb min | 1200 N min |
| Coefficient Of Thermal Expansion/Contraction | ASTM D696 | 8 x 10 ⁻⁶ in/in/°F max | 1.4 x 10 ⁻⁵ cm/cm/°C max |
| Environmental/Chemical Resistant Properties | See Chemical Resistance Table | | |
| Puncture Resistance | FED-STD 101C Method 2031 | 350 lb (approximate) | 1550 N (approximate) |

Seaming: Thermal welding methods are recommended. No glues or solvents are suggested.

We believe this information is the best currently available on the subject. We offer it as a suggestion in any appropriate experimentation you may care to undertake. It is subject to revision as additional knowledge and experience are gained. We make no guarantee of the results and assume no obligation or liability whatsoever in connection with this information. In case of conflict between standard and metric specifications, standard shall apply.