

outlast.
outperform.
outstanding.

XR3PW
By Seaman Corporation

Backed by 30 years of proven performance, XR-3® PW is the membrane preferred by more engineers and utility owners for the containment of potable water. This high strength, puncture, tear and UV resistant membrane is the only coated fabric with NSF 61 approval for potable water contact.

Whether used for floating covers, finished water baffles, raw water ponds or other potable water applications, XR-3® PW Geomembranes retain their flexibility and perform better than any other membranes in the world.



Floating Covers



Diversion Curtains



Pond Liners



The **XR3PW** Difference
vs. CSPE and Polypropylene

- Only coated fabric with NSF-61 approval
- Higher tensile strength
- Superior puncture and tear resistance
- Easier repairs

Seaman Corporation is a global leader in the development of a broad range of innovative, high performance fabrics. With a 60-year track record, Seaman Corporation has developed innovative fabric solutions for the roofing, military, architectural and marine industries.

Property	Test Method	8130 XR-3 PW	8228 XR-3 PW
Base Fabric Type Base Fabric Weight	ASTM D 751	Polyester 6.5 oz/yd ² nominal (220 g/m ² nominal)	Polyester 3.0 oz/yd ² nominal (100 g/m ² nominal)
Thickness	ASTM D 751	30 mils min. (0.76 mm min.)	30 mils min. (0.76 mm min.)
Weight	ASTM D 751	30.0 +- 2 oz./sq. yd. (1017 +- 70 g/sq. m)	28.0 +- 2 oz./sq. yd. (950 +- 70 g/sq. m)
Tear Strength	ASTM D 751 Trap Tear	40/55 lbs. min. (175/245 N min.)	30/30 lbs. nom. (133/133 N nom.)
Breaking Yield Strength	ASTM D 751 Grab Tensile	550/550 lbs. min. (2,447/2,447 N min.)	250/200 lbs. min. (1,110/890 N min.)
Low Temperature Resistance	ASTM D 2136 4hrs-1/8" Mandrel	Pass @ -30° F (Pass @ -35° C)	Pass @ -25° F (Pass @ -32° C)
Dimensional Stability	ASTM D 1204 100° C-1 hr.	0.5% max. each direction	5% max. each direction
Hydrostatic Resistance	ASTM D 751 Method A	800 psi min. (5.51 MPa min.)	300 psi min. (2.07 MPa min.)
Blocking Resistance	ASTM D 751 180° F	#2 Rating max.	#2 Rating max.
Adhesion-Ply	ASTM D 413 Type A	15 lbs./in. min. or film tearing bond (13 daN/5 cm min. or FTB)	12 lbs./in. (approx.) (10 daN/5 cm approx.)
Adhesion- Heat Welded Seam	ASTM D 751 Dielectric Weld	40 lbs./2in. min. (17.5 daN/5 cm min.)	10 lbs./in min. (9 daN/5 cm min.)
Dead Load Seam Strength	ASTM D 751 4-Hour Test	Pass 240 lbs./in. @ 70° F (Pass 980 N/2.54 cm @ 21° C) Pass 120 lbs./in. @ 160° F (Pass 534 N/2.54 cm @ 70° C)	Pass 100 lbs/in @ 70° F (Pass 445 N @ 21° C) Pass 50 lb @ 160° F (Pass 220 N @ 70° C)
Bonded Seam Strength	ASTM D 751 Procedure A, Grab Test Method	550 lbs. min. (2,450 N min.)	250 lbs. (approx.) (1,112 N min.)
Abrasion Resistance	ASTM D 3389 H-18 Wheel 1 kg Load	2000 cycles min. before fabric exposure, 50 mg/100 cycles max. weight loss	2000 cycles min.
Weathering Resistance	ASTM G 153	8000 hours min. with no appreciable change or stiffening or cracking of coating	8000 hours min.
Water Absorption	ASTM D 471, Section 12 7 Days	0.025 kg/m ² max. @ 70° F/21° C 0.14 kg/m ² max @ 212° F/100° C	0.05 kg/m ² max. @ 70° F/21° C (approx.) 0.28 kg/m ² max. @ 212° F/100° C (approx.)
Wicking	ASTM D 751	1/8" max. (0.3 cm max.)	1/8" max. (0.3 cm max.)
Bursting Strength	ASTM D 751 Ball Tip	750 lbs. min. (3330 N min.)	350 lbs. (approx.) (1557 N min.)
Puncture Resistance	ASTM D 4833	275 lbs. min. (1200 N min.)	50 lb typ. (225 N typ.)
Coefficient of Thermal Expansion/ Contraction	ASTM D 696	8 x 10 ⁻⁶ in/in/° F max. (1.4 x 10 ⁻⁵ cm/cm/° C max.)	8 x 10 ⁻⁶ in/in/° F max. (approx.) (1.4 x 10 ⁻⁵ cm/cm/° C max. approx.)
Puncture Resistance	FTMS 101C Method 2031	350 lbs. (approx.)	205 lbs. (approx.)