

# OUTLAST. OUTPERFORM. OUTSTANDING.

Recognizing the need for a lighter duty geomembrane, Seaman Corporation developed XR-3<sup>®</sup> for applications that required moderate chemical resistance and strength. Backed by over 60 years of leading

fabric technology, XR-3 uses the same base technology found in XR-5. This versatile and economical geomembrane can commonly be found in municipal wastewater and storm water runoff applications.



## The **XR3**<sup>®</sup> Difference vs. HDPE, CSPE and Polypropylene

- 30 Years of Proven Performance
- Superior UV-Resistance
- Moderate Chemical Resistance
- 10-Year Weathering Warranty

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	8228 XR-3®
Base Fabric Type Base Fabric Weight	ASTM D 751	Polyester 3.0 oz/yd <sup>2</sup> nominal (102 g/m <sup>2</sup> nominal)
Thickness	ASTM D 751	30.0 mils nominal (0.76 mm min.)
Weight	ASTM D 751	28.0 ± 2.0 oz/yd <sup>2</sup> (950 ± 70 g/sq. m)
Tear Strength	ASTM D 751 Trap Tear	30/30 lb. min. (133/133 N min.)
Breaking Yield Strength	ASTM D 751 Grab Tensile	250/200 lb. min. (1,110/890 N min.)
Low Temperature Resistance	ASTM D 2136 4hrs-1/8in Mandrel	Pass @ -25° F (Pass @ -32° C)
Dimensional Stability	ASTM D 1204 212°F/100° C-1 hr.	5% max. each direction
Hydrostatic Resistance	ASTM D 751 Method A	300 psi min. (2.07 MPa min.)
Blocking Resistance	ASTM D 751 180° F/82° C	#2 Rating max.
Adhesion-Ply	ASTM D 413 Type A	15 lb./in. min. or film tearing bond (13 daN/5 cm min. or FTB)
Adhesion- Heat Welded Seam	ASTM D 751 Dielectric Weld	10 lb./in. min. (9.0 daN/5 cm min.)
Dead Load Seam Strength	ASTM D 751 4-Hour Test	Pass 100 lb./in. @ 70° F (Pass 445 N/2.54 cm @ 21° C) Pass 50 lb./in. @ 160° F (Pass 220 N/2.54 cm @ 70° C)
Bonded Seam Strength	ASTM D 751 Procedure A, Grab Test Method	550 lb. min. (2,450 N min.)
Abrasion Resistance	ASTM D 3389 H-18 Wheel 1 kg Load	2,000 cycles min. before fabric exposure, 50 mg/100 cycles max. weight loss
Weathering Resistance	ASTM G 153	8,000 hours min. with no appreciable change or stiffening or cracking of coating
Water Absorption	ASTM D 471, Section 12 7 Days	0.025 kg/m <sup>2</sup> max. @ 70° F/21° C 0.14 kg/m <sup>2</sup> max @ 212° F/100° C
Wicking	ASTM D 751	1/8in max. (0.3 cm max.)
Bursting Strength	ASTM D 751 Ball Tip	350 lb. min. (1,557 N min.)
Puncture Resistance	ASTM D 4833	50 lb. min. (225 N min.)
Coefficient of Thermal Expansion/Contraction	ASTM D 696	8 x 10 <sup>-6</sup> in/in/° F max. (1.4 x 10 <sup>-5</sup> cm/cm/° C max.)
Puncture Resistance	FTMS 101C Method 2031	205 lb. approx.
Environmental/Chemical Resistance Properties	ASTM D 741 7-day Total Immersion with Exposed Edges	Crude oil 5% max. weight gain Diesel fuel 5% max. weight gain