

# TITAN XR-PW

30mil POTABLE WATER GEOMEMBRANE LINER



For Potable Water Applications NSF61 Approved

Base Fabric Type: Polyester

TESTED PROPERTY	TEST METHOD	UNIT ENGLISH (METRIC)	VALUE ENGLISH (METRIC)
Thickness	ASTM D 751	mil (mm)	30 (0.75)
Basic Fabric Weight (Nominal)	ASTM D 751	oz/yd <sup>2</sup> (g/m <sup>2</sup> )	6.5 (220)
Weight	ASTM D 751	oz/yd <sup>2</sup> (g/m <sup>2</sup> )	30.0 ±2 (1020 ±70)
Tear Strength (Trapezoid Tear)	ASTM D 4533	lbs (N) min	35/35 (155/155)
Breaking Yield Strength (Grab Tensile)	ASTM D 751	lbs (min)	550/550 (2450/2450)
Low Temperature (4hr - 1/8" mandrel)	ASTM D 2136	Pass	@ -30°F (-35°C)
Dimensional Stability (212°F - 1 hr)	ASTM D 1204	%	1.5 @ max each direction
Adhesion Heat Sealed Seam (Dielectric Weld)	ASTM D 751	lbf/in (N/cm) min	35/2 (150/5)
Dead Load - Seam Shear Strength	ASTM D 751		2" (5 cm) seam, 4hr, 1" (2.5 cm) strip 210 lbf (935 N) @ 71° F (21° C) 105 lbf (465 N) @ 160° F (70° C)
Busting Strength (Ball Tip)	ASTM D 751	lbs (N) min lbs (N) typical	650 (2890) 800 (3560)
Hydrostatic Resistance (Method A)	ASTM D 751	psi (N) min	800 (540)
Blocking Resistance (180°F /82°C)	ASTM D 1204		#2 Rating Max
Abrasion - Ply	ASTM D 413	lbs/in (daN/cm) min of Film Tearing Bond	15 (65/2.5)
Bonded Seam Strength (as modified by NSF 54)	ASTM D 751	lbs (N) min	550 (2450)
Abrasion Resistance( H-18 Wheel 1000g load)	ASTM D 3389		2000 cycles (min) before fabric exposure 50 mg/100 cycles max weight loss
Weathering Resistance (Carbon-arc)	ASTM G-23		8000 hrs(min) – No appreciable changes or stiffening or cracking of coating
Water Absorption (Section 12, 7 days)	ASTM D 471		0.025 kg/m <sup>2</sup> @ 70° F/21° C 0.14 kg/m <sup>2</sup> max @ 212° F/100° C
Wicking	ASTM D 751		1/8" (0.3cm) Max
Puncture Resistance	ASTM D 4833	lbs (N) min	250 (1110)
Coefficient of Thermal Expansion/ Contraction	ASTM D 696		8 x 10 <sup>-6</sup> in/in ° F (1.4 x 10 <sup>-5</sup> cm/cm/° C) max

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## Titan Environmental Containment

Toll free: 1-866-327-1957 | info@titanenviro.com | [TitanEnviro.com](http://TitanEnviro.com)