



## TITAN PW 30-3

# POTABLE WATER GEOMEMBRANE

## LINER

(For Potable Water Applications NSF61 Approved)

Base Fabric Type: Polyester

PROPERTY	TEST PROCEDURE	VALUE
Basic Fabric Weight (nominal)	ASTM D-3776	6.5 oz/yd <sup>2</sup> (220g/m <sup>2</sup> )
Thickness	ASTM D-751	30 mil (0.75mm)
Weight	ASTM D-751	30.0± 2oz/yd <sup>2</sup> (1020± 70g/m <sup>2</sup> )
Tear Strength (Trapezoid Tear)	ASTM D-4533	35/35 lbs <sub>f</sub> (155/155 N) min.
Breaking Yield Strength (Grab Tensile)	ASTM D-751	550/550 lbs <sub>f</sub> (2450/2450 N) min.
Low Temperature (4hr-1/8" mandrel)	ASTM D-2136	Pass @ -30°F (-35°C)
Dimensional Stability (212°F - 1hr)	ASTM D-1204	1.5% max each direction
Adhesion Heat Sealed Seam (Dielectric Weld)	ASTM D-751	35lb <sub>f</sub> /2 inches (150 N/5 cm) min.
Dead Load - Seam Shear Strength	ASTM D-751	2" (5 cm) seam, 4 hr , 1" (2.5 cm) strip 210 lb <sub>f</sub> (935 N) @ 70°F (21°C) 105 lb <sub>f</sub> (465 N) @ 160°F (70°C)
Bursting Strength (Ball Tip)	ASTM D-751	650 lb <sub>f</sub> (2890 N) min. 800 lb <sub>f</sub> (3560 N) typical
Hydrostatic Resistance (Method A)	ASTM D-751	800 psi (540 N/cm <sup>2</sup> ) min.
Blocking Resistance (180°F/82°C)	ASTM D-751	#2 Rating max.
Abrasion - Ply	ASTM D-413	15 lbs/in (65 N/2.5 cm) min or Film Tearing Bond
Bonded Seam Strength (as modified by NSF 54)	ASTM D-751	550 lb <sub>f</sub> (2450 N) min.
Abrasion Resistance (H-18 Wheel 1000g Load)	ASTM D-3389	2000 cycles(min) before fabric exposure 50mg/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" (0.3 cm) max.
Puncture Resistance	ASTM D-4833	250 lb <sub>f</sub> (1110 N) min
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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