

XR-PW

POTABLE WATER GEOMEMBRANE LINER



For Potable Water Applications NSF61 Approved

Base Fabric Type: Polyester

TESTED PROPERTY	TEST METHOD	VALUE ENGLISH (METRIC)
Basic Fabric Weight (nominal)	ASTM D 3776	6.5 oz/yd ² (220g/m ²)
Thickness	ASTM D 751	30 mil (0.75 mm)
Weight	ASTM D 751	30.0 ± 2 oz/yd ² (1020 ± 70 g/m ²)
Tear Strength (Trapezoid Tear)	ASTM D 4533	35/35 lb _f (155/155 N) min.
Breaking Yield Strength (Grab Tensile)	ASTM D 751	550/550 lb _f (2450/2450 N) min.
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	35 lb _f / 2 inches (150 N/5 cm) min
Dead Load – Seam Shear Strength	ASTM D 751	2" (5cm) seam, 4 hr, 1" (2.5 cm) strip 210 lb _f (935 N) @ 70°F (21°C) 105 lb _f (465 N) @ 160°F (70°C)
Bursting Strength (Ball Tip)	ASTM D 751	650 lb _f (2890 N) min 800 lb _f (3560 N) typical
Hydrostatic Resistance (Method A)	ASTM D 751	800 psi (540 N/cm ²) 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 MSF 54)	ASTM D 751	550 lb _f (2450 N) min
Abrasion Resistance (H018 Wheel 1000g Load)	ASTM D 3389	2000 cycles (min) before fabric exposure 500mg/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 ² @ 70°F (21°C) 0.14 kg/m ² max @ 212°F (100°C)
Wicking	ASTM D 751	1/8" (0.3 cm) max
Puncture Resistance	ASTM D 4833	250 lb _f (1110 N) min
Coefficient of Thermal Expansion/Contraction	ASTM D 696	8 x 10 ⁻⁶ in/in °F (1.4 x 10 ⁻⁵ cm/cm/°C) max

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