

**GEOMEMBRANE LINER
ENGINEERING SPECIFICATION GUIDE**



XR-3[®] 8130 PW

For Potable Water Applications NSF61 Approved

XR-3 [®] 8130 PW	Standard	Metric
Base Fabric Type	Polyester	
Basic Fabric Weight (nominal)	6.5 oz/yd ²	220/g/m ²
Thickness ASTM D751	30.0 mils min	0.76 mm min.
Weight ASTM D751	30.0 ± 2 oz/yd ²	1017 ± 70 g/m ²
Tear Strength ASTM D751 TrapTear	40/55 lbs min	174 / 245 N min.
Breaking Yield Strength ASTM D751 Grab Tensile	550/550 lbs min	2447/2447 N min.
Low Temperature ASTM D2136 4 hr – 1/8" mandrel	Pass @ -30° F	Pass @ -35° C
Dimensional Stability ASTM D1204 100° C – 1 hr	0.5% max each direction	
Adhesion Heat Sealed Seam ASTM D751 Dielectric Weld	40 lb/2 in min	175 N/5 cm min
Dead Load - Seam Shear Strength ASTM D751, 4 hr Test	Pass 240 lb/in @ 70°F Pass 120 lb/in @ 160°F	Pass 1068 N/2.54 cm @ 21° C Pass 534 N/2.54 cm @ 70 ° C
Bursting Strength ASTM D751 Ball Tip	750 lb min	3330 N min.
Hydrostatic Resistance ASTM D751 Method A	800 psi min	5.51 Mpa min.
Blocking Resistance ASTM D751, 180°F/82°C	#2 Rating max.	
Adhesion – Ply ASTM D413, Type A	15 lbs/in min or Film Tearing Bond	13 daN/5/cm min. or Film Tearing Bond
Bonded Seam Strength ASTM D751, Grab Test Method , Procedure A	550 lb min	2450 N min.
Abrasion Resistance ASTM D3389 (H-18 Wheel 1 kg Load)	2000 cycles (min) before fabric exposure 50 mg/100 cycles max weight loss	
Weathering Resistance ASTM G153	8000 hrs (min)-No appreciable changes or stiffening or cracking of coating	
Water Absorption ASTM D471 Section 12, 7 Days	0.025 kg/m ² @ 70°F/21°C 0.14 kg/m ² max @ 212°F/100°C	
Wicking ASTM D751	1/8 in max.	0.3 cm max.
Puncture Resistance ASTM D4833	275 lb min	1200 N min.
Coefficient of Thermal Expansion/Contraction ASTM D696	8 x 10 ⁻⁶ in/in/°F max	1.4 X 10 ⁻⁵ cm/cm/°C max.
Environmental /Chemical Resistance Properties ASTM D751 7-day Total immersion with exposed edges	NSF 61 approved for potable water	
Puncture Resistance FTMS 101 Method 2031	350 lbs approx.	

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