Seaman Corporation Material Specification

8228 XR®-PW

Flexible Reinforced Geomembrane Material for Potable Water

Physical Property	Test Method	Imperial	Metric
Base Fabric	type	Polyester	
Base Fabric Weight	ASTM D751 Nominal	3.0 oz/ yd^2	102 g/ m^2
Thickness	ASTM D751	30 mil (minimum)	0.76 mm (minimum)
Weight	ASTM D751	28.0 oz/ yd^2 ±2 oz/ yd^2	950 g/ m^2 ±70 g/ m^2
Tear Strength	ASTM D751 Trap Tear - Warp/Fill	30/30 lbf (minimum)	134/134 N (minimum)
Breaking Yield Strength	ASTM D751 Grab Tensile - Warp/Fill	250/200 lbf	1110/890 N
Low Temperature Resistance	ASTM D 2136 Low Temperature Bend	Pass @ -25˚ F	Pass @ -32˚ C
Adhesion	ASTM D751 Dielectric Weld	20 lbf/ 2 in	9 daN/ 5 cm
Adhesion Ply	ASTM D413	7.5 lbf/ in (minimum) or film tearing bond	6.5 daN/ 5 cm (minimum) or film tearing bond
Bursting Strength	ASTM D751 Ball Tip	300 lbf	1335 N
Hydrostatic Resistance	ASTM D751 Method A	300 psi (minimum)	2.07 Mpa (minimum)

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Physical Property	Test Method	Imperial	Metric
Dead Load Seam Strength	ASTM D751 4 hour test @ 160° F (71° C) 4 hour test @ 70° F (21° C)	50 lbf/ in 100 lbf/ in	222 N/ 2.54 cm 445 N/ 2.54 cm
Blocking Resistance	ASTM D751 180˚F (82˚C)	#2 Rating (max.)	
Bonded Seam Strength	ASTM D751 Procedure A - Grab	200 lbf (minimum)	890 N (minimum)
Weathering Resistance	ASTM G155 Xenon	8000 hours minimum - no appreciable changes or stiffening or cracking of coating	
Water Absorption	ASTM D751 One-side exposure -7 Days	0.025 kg/m^2 (max.) @ 70˚ F/ 21˚ C	
Puncture Resistance	ASTM D4833	50 lbf (minimum)	222 N (minimum)
Coefficient of Thermal Expansion/Contraction	ASTM D696	2.1 10^{-5} in/ in/ ˚F (max.)	3.8 10^{-5} cm/ cm/ ˚C (max.)
Dimensional Stability	ASTM D1204 100˚C/1 hour	1.0% max. each direction	

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