



Seaman Corporation Material Specification

# 8130 XR-5<sup>®</sup>

## Flexible Reinforced Geomembrane

Physical Property	Test Method	Imperial	Metric
Base Fabric	type	Polyester	
Base Fabric Weight	ASTM D751 Nominal	6.5 oz/ yd <sup>2</sup>	220 g/ m <sup>2</sup>
Thickness	ASTM D751	30 mil (minimum)	0.76 mm (minimum)
Weight	ASTM D751	30.0 oz/ yd <sup>2</sup> ±2 oz/ yd <sup>2</sup>	1017 g/ m <sup>2</sup> ±70 g/ m <sup>2</sup>
Tear Strength	ASTM D4533 Trap Tear - Warp/Fill	40/55 lbf (minimum)	178/245 N (minimum)
Breaking Yield Strength	ASTM D751 Grab Tensile - Warp/Fill	550/550 lbf	2450/2450 N
Low Temperature Resistance	ASTM D 2136 Low Temperature Bend	Pass @ -30° F	Pass @ -34° C
Adhesion-Heat Welded	ASTM D751 Dielectric Weld	40 lbf/ 2 in	17.5 daN/ 5 cm
Bursting Strength	ASTM D751 Ball Tip	750 lbf	3340 N
Hydrostatic Resistance	ASTM D751 Procedure A	800 psi (minimum)	5.52 Mpa (minimum)

(continued)



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 XR-5<sup>®</sup> is a product and trade name of Seaman Corporation

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Physical Property	Test Method	Imperial	Metric
<b>Dead Load Seam Strength</b> 2" (50.8mm) seam, 1" (25.4mm) strip	ASTM D751 4 hour test @ 160° F (71° C) 4 hour test @ 70° F (21° C)	120 lbf/ in 240 lbf/ in	534 N/ 2.54 cm 1068 N/ 2.54 cm
<b>Blocking Resistance</b>	ASTM D751 180° F (82° C)	#2 Rating (max.)	
<b>Bonded Seam Strength</b>	ASTM D751 Procedure A - Grab	550 lbf (minimum)	2450 N (minimum)
<b>Weathering Resistance</b>	ASTM G155 Xenon	8000 hours minimum - no appreciable changes or stiffening or cracking of coating	
<b>Water Absorption</b>	ASTM D471 One-side exposure -7 Days	0.025 kg/m <sup>2</sup> (max.) @ 70° F/ 21° C	
<b>Puncture Resistance</b>	ASTM D4833	275 lbf (minimum)	1225 N (minimum)
<b>Coefficient of Thermal Expansion/Contraction</b>	ASTM D696	2.1 10 <sup>-5</sup> in/ in/ °F	3.8 10 <sup>-5</sup> cm/ cm/ °C
<b>Dimensional Stability</b>	ASTM D1204 100° C/1 hour	0.5% max. each direction	

Unless stated otherwise, values presented here represent the minimum expected measurements at the time of manufacture. We believe this information is the best currently available on the subject. We offer it as a suggestion in any appropriate experimentation you may care to undertake. It is subject to revision as additional knowledge and experience are gained. We make no guarantee of results and assume no obligation or liability whatsoever in connection with this information.



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