

## High Performance XR-5® 8130 Reinforced Geomembrane

XR-5® 8130 Reinforced	Test Method	Standard	Metric
Base Fabric Type Base Fabric Weight (nominal)		Polyester 6.5 oz/yd <sup>2</sup>	Polyester 220 g/m <sup>2</sup>
Thickness	ASTM D 751	30.0 mils min	0.75 mm min
Weight	ASTM D 751	30.0 ± 2 oz/yd <sup>2</sup>	1020 ± 70 g/m <sup>2</sup>
Tear Strength	ASTM D 4533 Trapezoid Tear	35/35 lb min	155/155 N min
Breaking Yield Strength	ASTM D 751 Grab Tensile Procedure A	550/550 lb min	2450/2450 N min
Low Temperature	ASTM D 2136 4 hr - 1/8" mandrel	Pass @ -30° F	Pass @ -35° C
Dimensional Stability	ASTM D 1204 212° F - 1 hr	1.5% max each direction	1.5% max each direction
Adhesion Heat Sealed Seam	ASTM D 751 Dielectric Weld	35 lb/2 in min	150 N/5 cm min
Dead Load Seam Shear Strength	ASTM D 751 4-hour test	2 in seam, 1 in strip 210 lb @ 70° F 105 lb @ 160° F	5 cm seam, 2.5 cm strip 935 N @ 21° C 465 N @ 70° C
Bursting Strength	ASTM D 751 Ball Tip	650 lb min 800 lb typical	2890 N min 3560 N typical

(More on physical properties on back.)

## GEOMEMBRANE SPECIFICATIONS

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XR-5 <sup>®</sup> 8130 Reinforced	Test Method	Standard	Metric
Hydrostatic Resistance	ASTM D 751 Method A	800 psi min	540 N/sq cm min
Blocking Resistance	ASTM D 751 180° F/82° C	#2 Rating max	
Adhesion - Ply	ASTM D 413 Type A	15 lb/in min or Film Tearing Bond	65 N/2.5 cm min or Film Tearing Bond
Bonded Seam Strength	ASTM D 751 Grab Test Method Procedure A	550 lb min	2450 N min
Abrasion Resistance	ASTM D 3389 H-18 Wheel 1000 g Load	2000 cycles (min) before fabric exposure 50 mg/100 cycles max weight loss	
Weathering Resistance	ASTM G153 (Carbon-Arc)	8000 hrs (min)-No appreciable changes or stiffening or cracking of coating	
Water Absorption	ASTM D 471 Section 12 7 Days	0.025 kg/m <sup>2</sup> max @ 70° F/21° C 0.14 kg/m <sup>2</sup> max @ 212° F/100° C	
Wicking	ASTM D 751	1/8 in max	0.3 cm max
Puncture Resistance	ASTM D 4833	250 lb min	1110 N min
Coefficient Of Thermal Expansion/Contraction	ASTM D 696	8 x 10 <sup>-6</sup> in/in/°F max	1.4 x 10 <sup>-5</sup> cm/cm/°C max

**Seaming:** Thermal welding methods are recommended. No glues or solvents are suggested.

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 the results and assume no obligation or liability whatsoever in connection with this information. In case of conflict between standard and metric specifications, standard shall apply.