



## SPECIFICATION SHEET

Toll Free (800) 955-4637 [www.AccuGeo.com](http://www.AccuGeo.com)  
 Ph. (661) 321-0447 Fax (661) 321-0449  
 321 Industrial St. Bakersfield, CA 93307

### XR-5<sup>®</sup>

Property	Test Method	Values	
Product Number		8130	8138
Base Fabric Type		Polyester	Polyester
Base Fabric Weight (nominal)	ASTM D 751	6.5 oz/yd <sup>2</sup>	6.5 oz/yd <sup>2</sup>
Thickness (mils minimum)	ASTM D 751	30.0	40.0
Weight ( $\pm 2$ oz/yd <sup>2</sup> )	ASTM D 751	30.0	38.0
Tear Strength (minimum)	ASTM D 4533, Trapezoid Tear	40/55 lbs	40/55 lbs
Breaking Yield Strength (minimum)	ASTM D 751, Grab Tensile	550/550 lbs	550/550 lbs
Low Temperature Resistance	ASTM D 2136 (4 hr - 1/8" mandrel @ -30° F)	Pass	Pass
Dimensional Stability (maximum)	ASTM D 1204 (212° F - 1hr)	0.5%	0.5%
Adhesion - Heat Sealed Seam (minumum)	ASTM D 751 (Dielectric Weld)	40 lb/2 in	40 lb/2 in
Dead Load Seam Strength	ASTM D 751, 4-hour test, 2" seam, 1" strip	240 lb @ 70° F 120 lb @ 160° F	240 lb @ 70° F 120 lb @ 160° F
Bursting Strength (minimum)	ASTM D 751, Ball Tip	750 lbs	750 lbs
Hydrostatic Resistance (minimum)	ASTM D 751, Procedure A	800 psi	800 psi
Blocking Resistance	ASTM D 751 (180° F / 82° C)	#2 Rating max	#2 Rating max
Adhesion - Ply	ASTM D 413, Type A	15 lb/in or Film Tearing Bond	15 lb/in or Film Tearing Bond
Bonded Seam Strength (minimum)	ASTM D 751, Grab Test Method Procedure A	550 lbs	550 lbs
Abrasion Resistance	ASTM D 3389 H-18 Wheel 1kg Load	2,000 cycles minimum before fabric exposure 50 mg/100 cycles maximum weight loss	
Weathering Resistance	ASTM G 153 (Carbon Arc, 8000 hrs)	No appreciable changes	
Water Absorption	ASTM D 471, Section 12, 7 Days	0.025 kg/m <sup>2</sup> max @ 70° F 0.14 kg/m <sup>2</sup> max @ 212° F	
Wicking (maximum)	ASTM D 751	1/8 inch	1/8 inch
Puncture Resistance (minimum)	ASTM D 4833	275 lbs	275 lbs
Puncture Resistance (approximate)	FED-STD 101C, Method 2031	350 lbs	350 lbs
Thermal Expansion / Contraction Coefficient	ASTM D 696	8 x 10 <sup>-6</sup> in/in/°F max	8 x 10 <sup>-6</sup> in/in/°F max

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