



**8130 XR-5<sup>®</sup>**  
**Minimum Specifications**

	<b>Standard</b>	<b>Metric</b>
Base Fabric Type	Polyester	Polyester
Base Fabric Weight (nominal)	6.5 oz/yd <sup>2</sup>	220 g/m <sup>2</sup>
Thickness		
ASTM D751	30 mil	0.76 mm
Weight		
ASTM D751	30 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 Trapezoid Tear	35/35 lb <sub>f</sub> minimum	156/156 N minimum
Breaking Yield Strength		
ASTM D751 Grab Tensile	550/550 lb <sub>f</sub> minimum	2448/2448 N minimum
Low Temperature		
ASTM D2136	1/8 in mandrel, 4 hr Pass @ -30° F	3.2 mm mandrel, 4 hr Pass @ -34° C
Dimensional Stability		
ASTM D1204 212°F/100°C – 1 hr	1.5% maximum each direction	1.5% maximum each direction
Adhesion		
ASTM D751 Dielectric Weld	35 lb <sub>f</sub> /2 in minimum	15 daN/5 cm minimum
Dead Load		
ASTM D751	2 in. seam, 4 hr, 1 in strip 210 lb <sub>f</sub> @ 70° F 105 lb <sub>f</sub> @ 160° F	5 cm seam, 4 hr, 2.5 cm strip 935 N @ 21° C 467 N @ 71° C
Bursting Strength		
ASTM D751 (Ball Tip)	650 lb <sub>f</sub> minimum 800 lb <sub>f</sub> typical	2893 N minimum 3560 N typical
Hydrostatic Resistance		
ASTM D751 Procedure A	800 psi minimum	5.52 MPa minimum
Blocking Resistance		
ASTM D751 180°F/82°C	# 2 rating maximum	#2 rating maximum
Ply Adhesion		
ASTM D413	15 lb <sub>f</sub> /in or Film Tearing Bond	13 daN/5 cm or Film Tearing Bond
Bonded Seam Strength		
ASTM D751 Seam Strength as modified by NSF 54	550 lb <sub>f</sub> minimum	2448 N minimum
Abrasion Resistance		
ASTM D3389 H-18 Wheel, 1000 g load	2000 cycles minimum before fabric exposure 50 mg/100 cycles maximum weight loss	

*(more physical properties on back)*

## 8130 XR-5<sup>®</sup> Specifications – PAGE 2

	Standard	Metric
Weathering Resistance ASTM G23 (Carbon-Arc)	8000 hrs (minimum) – No appreciable changes or stiffening or cracking of coating	
Water Absorption ASTM D471 <i>Section 12, 7 days</i>	0.025 kg/m <sup>2</sup> (maximum) at 70° F/21° C 0.14 kg/m <sup>2</sup> (maximum) at 212° F/100° C	
Wicking ASTM D751	1/8 in maximum	3.2 mm maximum
Puncture Resistance ASTM D4833	250 lb <sub>f</sub> minimum	1113 N minimum
Coefficient of Thermal Expansion/Contraction ASTM D696	8 x 10 <sup>-6</sup> in/in/°F maximum	1.4 x 10 <sup>-5</sup> cm/cm/°C maximum

Unless stated otherwise, values presented above 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. In case of conflict between standard and metric specifications, standard shall apply.

*XR5<sup>®</sup> is a registered trademark of Seaman Corporation*

*File 8130\_XR5, Revision #2, Issued November 2002*