



XR-5 SPECIFICATIONS

XR-5 [®] 8130 Reinforced	Standard	Metric
Base Fabric Type ASTM D3776	Polyester	
Base Fabric Weight (nominal) ASTM D3776	6.5 oz/yd ²	220 g/m ²
Thickness ASTM D751	30.0 mils min.	0.76 mm min.
Weight ASTM D751	30.0 ± 2 oz/yd ²	1017 ± 70 g/m ²
Tear Strength ASTM D4533, Trapezoid Tear	35/35 lb _f min.	155/155 N min.
Breaking Yield Strength ASTM D751, Grab Tensile	550/550 lb _f min.	2447/2447 N min.
Low Temperature ASTM D2136, 4 hr - 1/8" mandrel	Pass @ -30 ° F	Pass @ -35 ° C
Dimensional Stability ASTM D1204, 212° F - 1 hr	1.5% max. each direction	
Adhesion - Heat Sealed Seam ASTM D751, Dielectric Weld	35 lb _f /2 in min.	15 daN/5 cm min.
Dead Load - Seam Shear Strength ASTM D751	2 in seam, 4 hr, 1 in strip 210 lb _f @ 70° F 105 lb _f @ 160° F	5 cm seam, 4 hr, 2.5 cm strip 934 N @ 21° C 467 N @ 70° C
Bursting Strength ASTM D751 Ball Tip	650 lb _f min. 800 lb _f typical	2892 N min. 3560 N typical
Hydrostatic Resistance ASTM D751, Method A	800 psi min.	5.51 MPa min.
Blocking Resistance ASTM D751 (180° F/82° C)	# 2 Rating max.	
Adhesion - Ply ASTM D413	15 lb _f /in min. or Film Tearing Bond	13 daN/5 cm min. or Film Tearing Bond
Bonded Seam Strength ASTM D751 as modified by NSF 54	550 lb _f min.	2447 N min.
Abrasion Resistance ASTM D3389 (H-18 Wheel, 1000 g load)	2000 cycles (min.) before fabric exposure 50 mg/100 cycles max weight loss	
Weathering Resistance ASTM G23 (Carbon-Arc)	8,000 hrs (min.) - No appreciable changes or stiffening or cracking of coating	
Water Absorption ASTM D471, Section 12, 7 days	0.025 kg/m ² max. @ 70° F/21° C 0.14 kg/m ² max. @ 212° F/100° C	
Wicking Shelter-Rite [®] Procedure	1/8 in max.	0.3 cm max.
Puncture Resistance ASTM D4833	250 lb _f min.	1112 N min.
Coefficient of Thermal Expansion/Contraction ASTM D696	8 x 10 ⁻⁶ in/in/°F max.	1.4 x 10 ⁻⁵ cm/cm/°C max.

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.