



### XR-5<sup>®</sup>

XR-5 <sup>®</sup> 8138 Reinforced	Standard	Metric
Base Fabric Type ASTM D3776	Polyester	
Base Fabric Weight (nominal) ASTM D3776	6.5 oz/yd <sup>2</sup>	220 g/m <sup>2</sup>
Thickness ASTM D751	45.0 mils nominal	1.0 mm nominal
Weight ASTM D751	38.0 ± 2 oz/yd <sup>2</sup>	1288 ± 70 g/m <sup>2</sup>
Tear Strength ASTM #D 4533, Trapezoid Tear	40/55 lb <sub>f</sub> min.	175/245 N min.
Breaking Yield Strength ASTM D751, Grab Tensile	550/550 lb <sub>f</sub> 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	0.5% max. each direction	
Adhesion - Heat Sealed Seam ASTM D751, Dielectric Weld	40 lb <sub>f</sub> /2 in min.	17.5 daN/5 cm min.
Dead Load - Seam Shear Strength 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 934 N @ 21° C 467 N @ 70° C
Bursting Strength ASTM D751 Ball Tip	750 lb min	3330 N
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 <sub>f</sub> /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 <sub>f</sub> 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 <sup>2</sup> max. @ 70° F/21° C 0.14 kg/m <sup>2</sup> max. @ 212° F/100° C	
Wicking - Shelter-Rite <sup>®</sup> Procedure	1/8 in max.	0.3 cm max.
Puncture Resistance ASTM D4833	275 lb <sub>f</sub> min.	1200 N min.
Coefficient of Thermal ASTM D696	8 x 10 <sup>-6</sup> in/in/°F max.	1.4 x 10 <sup>-5</sup> cm/cm/°C max.