



40 MIL XR-5®

XR-5® 8138 RIENFORCED	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	40.0 Mils nominal	1.0mm nominal
Weight ASTM D751	38.0 ± 2oz/yd ²	1288 ± 70 g/m ²
Tear Strength ASTM #D 1117, Trapeziod 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/ 5cm 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/5cm 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, 1000g 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	.025 kg/m ² max. @ 70° F/21° C .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	8 x 10 ⁻⁶ in/in/°F max.	1.4 x 10 ⁻⁵ cm/cm/°C max.