

Physical Properties	Test Method	Spec Sheet (LG)	40 mil	30 mil
			LG XPROgeo 401E	Seaman XR-5 8130
Thickness	ASTM D 751	40 mil Min.	41 .5mil	34.2 mil
Weight	ASTM D 751	38 ± 2 oz/yd ²	36.8 oz/yd ²	30.5 oz/yd ²
Tear Strength	ASTM D 4533 (Trap Tear)	44 / 55 lbs Min.	103 / 88 lbs	42 / 40 lbs
Breaking Yield Strength	ASTM D 751 (Grab, P-A)	550 / 550 lbs Min.	737 / 722 lbs	591 / 635 lbs
Low Temperature Resistance	ASTM D 2136 (4hr-1/8', Mandrel)	Pass @ - 30 °C	Pass @ - 40 °F	Pass @ - 40 °C
Dimensional Stability	ASTM D 1204 (212°F/100°C) - 1hr	1.5% Max Each Direction	-0.30 / -0.09 %	1.07 / 0.7 %
Blocking Resistance	ASTM D 751 (180 °F / 82°C)	#2 Rating Max	No Block	No Block
Dead Load –Seam Shear Strength	ASTM D 751 (4-Hrs at 70°F)	Pass (70 °F @ 210 lbs)	Pass	Pass
Dead Load –Seam Shear Strength	ASTM D 751 (4-Hrs at 160°F)	Pass (160 °F @ 105 lbs)	Pass	Fail
Adhesion Heat Sealed Seam	ASTM D 751 Dielectric Weld	33 lbs / 2 in	pending	pending
Abrasion Resistance	ASTM D 3389 (H-18 Wheel 1kg) Mass %Loss / 2000cycle	30mg/100 cycles Max Coating Loss	4.26%	6.74%
Wicking	ASTM D 751	1/8 in Max	0.00 / 0.00	0.30 / 0.00
Water Absorption	ASTM D 471 (7days)	0.14 kg/m ² max @ 212 °F / 100°C	0.138	0.22
Water Absorption	ASTM D 471 (7days)	0.025 kg/m ² max @ 70 °F / 21°C	0.011	0.021
Hydrostatic Resistance	ASTMD751,Method A	800 psi Min	1112 psi	741 psi
Seam Shear Strength	ASTM D 751 Grab P-A	550 lbs Min.	775 lbs	610 lbs
Bursting Strength	ASTM D 751 Ball Tip	650 lbs Min. (800 lbs Typical)	897 lbs	597 lbs
Puncture Resistance	ASTM D 4833	250 lbs Min.	307 lbs	233 lbs
Puncture Resistance	FTMS 101C METHOD 2031	250 lbs Min.	498 lbs	212 lbs
Coefficient of Linear Thermal Expansion	ASTM D 696		7.00×10 ⁻⁵	3.50×10 ⁻⁵