

ARMORSHELL®

GEOMEMBRANE

ArmorShell® L1810KUP | 21 mils

Base Fabric	Standard	Metric
Weight	2.8 oz / yd ²	95 g / m ²
Fiber / Style	Polyester / Knit	

Coated Fabric	Standard	Metric
Thickness	21 (+/- 2) mils	0.53 (+/- 0.05) mm
Total Weight	18 (+/- 1.5) oz / yd ²	612 (+/- 51) g/m ²
Coating Type	PVC	
Coating Distribution	50 / 50	
Sealing Properties	Dielectric / Thermal	

Material Properties	ASTM Test Methods	Standard	Metric
Tensile Strength, Grab (Warp / Fill)	D751A	200 / 190 lbs	890 / 845 N
Tear Strength, Tongue (Warp / Fill)	D751B (mod)	60 / 80 lbs	267 / 356 N
Puncture, Screwdriver	D751	45 lbs	200 N
Puncture, Ball	D751	275 lbs	1,220 N
Hydrostatic Resistance	D751A	250 psi	1.7 MPa
Ply Adhesion	D751 (mod)	10 lbs / 2 in	44 N / 5 cm
RF Adhesion	D751	12.5 lbs / in	22 N / cm
Thermal Adhesion	D751	12.5 lbs / in	22 N / cm
Low Temp	D2136	-40°F	-40°C
High Temp, Cont/Interm.	D1204	180 / 200°F	82 / 93°C
Abrasion Resistance (Wheel H18 / 1 kg)	D3884	500 cycles	
Flame Resistance, Afterflame Time	FTMS 191A, Method 5903	2 sec (max)	
Flame Resistance, Char Length	FTMS 191A, Method 5903	6 in (max)	15 cm (max)

Listed with the California State Fire Marshall. Passes NFPA 701 (large scale).
 Special anti-static compound with expected range of 1.2×10^{10} to 4.3×10^{10} ohms surface resistivity.
 This product is RoHS compliant.

A One-Stop Shop. Cooley is the leading provider of a complete range of commercial and potable water-grade geomembranes—including Coolpro® reinforced polypropylene, Coolthane® polyurethane coated fabrics, and Coolshield® for high-temperature and extreme containment applications—to provide cost-competitive solutions for a wide, highly diverse range of applications.



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