

COOLSHIELD® 45E

GEOMEMBRANE

CoolShield® 45E | 45 mils

Base Fabric	Standard	Metric
Weight	5.08 oz / yd ²	173 g / m ²
Fiber / Style	Polyester / Knit	

Coated Fabric	Standard	Metric
Total Thickness (nominal)	45 mils	1.1 mm
Total Weight	62 (+/- 6) oz / yd ²	2102 (+/- 203) g/m ²
Coating Type	PVDF	
Coating Distribution	50 / 50	
Sealing Properties	Dielectric / Thermal	

Material Properties	ASTM Test Methods	Standard	Metric
Tensile Strength, Grab (Warp / Fill)	D751A	530 / 530 lbs	2358 / 2358 N
Tear Strength, Tongue (Warp / Fill)	D751B (mod)	100 / 65 lbs	445 / 289 N
Puncture Resistance, Screwdriver	D751	60 lbs	267 N
Hydrostatic Resistance	D751A	250 psi	1.7 MPa
Ply Adhesion	D751 (mod)	25 lbs / 2 in	111 N / 5 cm
RF Adhesion	D751	25 lbs / in	44 N / cm
Thermal Adhesion	D751	25 lbs / in	44 N / cm
High Temp, Cont/Interm.	D1204	302 / 329°F	150 / 165°C

A variety of standard widths and colors are available.

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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