

# ArmorLiner® 45L

## 22 OZ GEOMEMBRANE



Containment Liners

#### PRODUCT DIMENSIONS

Cores 4 inch I.D. or 5 inch I.D. available (10 cm or 13 cm) Width Up to 150 in (381 cm) (-0, +0.5) as ordered

Length Minimum 250 yds/roll (229 m); up to 500 yds/roll (457 m)

#### PRODUCT SPECIFICATIONS

Weave Two woven black HDPE scrims

Coating LDPE, 3.0 mil average each side/laminate (72 g/m²/side)

Certified to NSF/ANSI 61

Color White, black or other colored coatings available

Weight  $22 \text{ oz/yd}^2 (750 \text{ g/m}^2) \pm 5\%$ 

These values are typical data and are not intended as limiting specifications.



### PERFORMANCE PROPERTIES

The following data are typical values based on ASTM standard tests. This data should not be considered specification.

Thickness	Nominal 45 mil (1.12 mm), ± 10%
ASTM D1777	, , , ,
Grab Tensile (N)	MD 655 lb (2908)
ASTM D7004	TD 880 lb (3907)
Strip Tensile (N/5cm)	MD 435 lb/in (3863)
ASTM D7003	TD 565 lb/in (5017)
Tongue Tear-large scale (N)	MD 105 lb (466)
ASTM D5884	TD 110 lb (488)
Mullen Burst	4000 1/007715 )
ASTM D751	1300 psi (8957 kPa)
MVTR	
ASTM E96 Proc. BW	0.25 g/m <sup>2</sup> ·24hr (0.04 perms)
Hydraulic Conductivity (Permeability)	
Calculated from MVTR	3.44 x 10 <sup>-14</sup> cm/s
Hydrostatic Resistance	
ASTM D751	880 psi (6063 kPa)
Puncture Resistance	
ASTM D4833	365 lb (1621 N)
CBR Static Puncture	
ASTM D6241	2265 lb (10,057 N)
Carbon Black Content	
ASTM D4218	3 %
	ND 0.494
Dimensional Stability ASTM D1204	MD -2.1% TD -1.5%
	10-1.5%
Low Temperature Flex	MD & TD: Pass @ -65°C (-85°F)
ASTM D2136	,
HP-OIT	3048 minutes
ASTM D5885 (Measured on coating formulation)	
Accelerated UV Weathering <sup>i</sup>	>90% strength retention after 10,000 light hours
ASTM D7238	200 /0 Strength retention after 10,000 light hours

MD = Machine Direction. TD = Transverse Direction  $^{\rm i}$  Q.U.V [A-340 Lamps]; 20 hrs UV @ 75°C; 4 hrs condensation @ 60°C











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