

ArmorLiner® 45L

22 OZ GEOMEMBRANE



Mining, Coal/Ash Remediation, Large Reservoirs, Long Term 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)

NSF/ANSI/CAN 61

Color White, black or other colored coatings available

Weight 22 oz/yd² (750 g/m²) \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 ASTM D1777	Nominal 45 mil (1.12 mm), ± 10%
Grab Tensile (N) ASTM D7004	MD 845 lb (3759) TD 965 lb (4292)
Strip Tensile (N/5cm) ASTM D7003	MD 510 lb/in (4466) TD 535 lb/in (4684)
Tongue Tear-large scale (N) ASTM D5884	MD 130 lb (578) TD 150 lb (667)
Mullen Burst ASTM D751	1300 psi (8957 kPa)
MVTR ASTM E96 Proc. BW	0.25 g/m ² ·24hr (0.04 perms)
Hydraulic Conductivity (Permeability) Calculated from MVTR	3.44 x 10 ⁻¹⁴ cm/s
Hydrostatic Resistance ASTM D751	880 psi (6063 kPa)
Puncture Resistance ASTM D4833	455 lb (2024 N)
CBR Static Puncture ASTM D6241	2265 lb (10,057 N)
Carbon Black Content ASTM D4218	3 %
Dimensional Stability ASTM D1204	MD -2.1% TD -1.5%
Low Temperature Flex ASTM D2136	MD & TD: Pass @ -65°C (-85°F)
HP-OIT ASTM D5885 (Measured on coating formulation)	3048 minutes
Accelerated UV Weathering ⁱ ASTM D7238	>90% strength retention after 10,000 light hours

MD = Machine Direction. TD = Transverse Direction Q.U.V [A-340 Lamps]; 20 hrs UV @ 75°C; 4 hrs condensation @ 60°C











Certified to NSF/ANSI/CAN 61

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