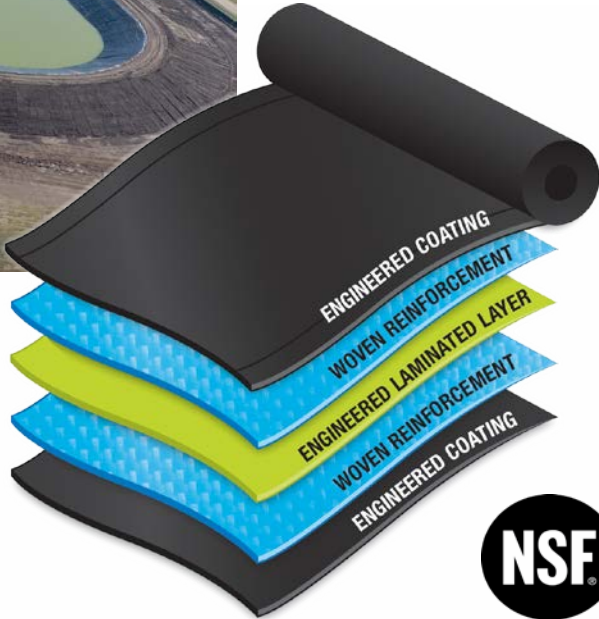




ArmorLiner® 40L

18.5 OZ GEOMEMBRANE



Certified to NSF/ANSI 61

PRODUCT DESCRIPTION

A double scrim, heavyweight geomembrane fabric incorporating a special weave pattern to enhance thickness, flatness, and tear properties. The coating recipe is designed to improve toughness and abrasion resistance for exposed applications up to 20 years requiring extremely high puncture resistance and tensile strength.

RECOMMENDED APPLICATIONS

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, 2.5 mil average each side (60 g/m²/side)
- Color** White, black or other colored coatings available
- Weight** 18.5 oz/yd² (627 g/m²) ± 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 40 mil (1.0 mm), ± 10%
Grab Tensile (N) ASTM D7004	MD 680 lb (3019) TD 680 lb (3019)
Strip Tensile (N/5cm) ASTM D7003	MD 460 lb/in (4085) TD 460 lb/in (4085)
Tongue Tear—large scale (N) ASTM D5884	MD 140 lb (622) TD 135 lb (599)
Mullen Burst ASTM D751	1300 psi (8957 kPa)
MVTR ASTM E96 Proc. BW	0.21 g/m ² ·24hr (0.03 perms)
Hydraulic Conductivity (Permeability) Calculated from MVTR	1.66 x 10 ⁻¹⁴ cm/s
Hydrostatic Resistance ASTM D751	685 psi (4720 kPa)
Puncture Resistance ASTM D4833	350 lb (1554 N)
CBR Static Puncture ASTM D6241	2356 lb (10,461 N)
Carbon Black Content ASTM D4218	3.1%
Dimensional Stability ASTM D1204	MD -2.2% TD -1.8%
Low Temperature Flex ASTM D2136	MD & TD: Pass @ -65°C (-85°F)
HP-OIT ASTM D5885 (Measured on coating formulation)	3048 minutes
Accelerated UV Weathering¹ ASTM D7238	>90% strength retention after 10,000 light hours

MD = Machine Direction. TD = Transverse Direction
¹ Q.U.V [A-340 Lamps]; 20 hrs UV @ 75°C; 4 hrs condensation @ 60°C



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