

WOVEN COATED POLYETHYLENE GEOMEMBRANE LINERS

PRODUCT DATA SHEETS

12 MIL WOVEN COATED POLYETHYLENE GEOMEMBRANE LINER



A medium weight fabric incorporating a new coating recipe designed to improve toughness and abrasion resistance.

PRODUCT DIMENSIONS

Cores	4 inch I.D. or 5 inch I.D. available (10 cm or 13 cm)
Width	Up to 150 inches (381 cm) (-0, +0.5) as ordered
Length	Minimum 250 yds/roll (229 m); up to 2000 yds/roll (1828 m)

PRODUCT SPECIFICATIONS

Weave	Woven black HDPE scrim
Coating	LDPE, 1.5 mil average each side (35.6 g/m ² /side)
Color	Black or other colored coatings available
Weight	5.2 oz/yd ² (176 g/m ²) \pm 5%

RECOMMENDED APPLICATIONS

Grain Covers, Temporary Landfill Covers,
Short-term Liners

For more information about PVC Geomembrane Liners, contact Inside Sales at infogeo@ferguson.com or visit us at fergusonwaterworks.com

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12 MIL WOVEN COATED POLYETHYLENE GEOMEMBRANE LINER

PERFORMANCE PROPERTIES

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

TEST METHOD		12 MIL
Thickness	ASTM D1777	Nominal 12 mil (0.50 mm), ± 10%
Grab Tensile	ASTM D7004	MD 180 lb. (799) TD 125 lb. (555)
Strip Tensile	ASTM D7003	MD 140 lb./in (1243) TD 100 lb./in (888)
Tongue Tear - Large Scale	ASTM D5884	MD 50 lb. (222) TD 50 lb. (222)
Mullen Burst	ASTM D751	275 psi (1895 kPa)
MVTR	ASTM E96 Proc. BM	0.35 g/m² x 24 hr. (0.05 perms)
Hydraulic Conductivity	Calculated from MVTR	1.37 x 10 ⁻¹⁴ cm/s
Hydrostatic Resistance	ASTM D751	130 psi (896 kPa)
Puncture Resistance	ASTM D4833	76 lb. (337 N)
CBR Static Puncture	ASTM D6241	530 lb. (2353 N)
Carbon Black Content	ASTM D4218	3%
Dimensional Stability	ASTM D1204	MD -2.9% TD -2.2%
Low Temp. Flex	ASTM D2136	MD & TD: Pass @ -40°C (-40°F)
HP - OIT	ASTM D5885 (measured on coating formulation)	1330 minutes
Accelerated UV Weathering*	ASTM G151 ASTM G154	>90% strength retention after 2000 hrs. exposure @ 0.77 W/m²/nm, or 1200 hrs. exposure @ 1.35 W/m²/nm

MD = Machine Direction TD = Transverse Direction

* Q.U.V. [A-340 Lamps]; 8 hrs. UV @ 60°C; 4 hrs. condensation @ 50°C

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16 MIL WOVEN COATED POLYETHYLENE GEOMEMBRANE LINER



A medium weight fabric incorporating a new coating recipe designed to improve toughness and abrasion resistance.

PRODUCT DIMENSIONS

Cores	4 inch I.D. or 5 inch I.D. available (10 cm or 13 cm)
Width	Up to 150 inches (381 cm) (-0, +0.5) as ordered
Length	Minimum 250 yds/roll (229 m); up to 1000 yds/roll (914 m)

PRODUCT SPECIFICATIONS

Weave	Woven black HDPE scrim
Coating	LDPE, 2.5 mil average each side (59 g/m ² /side)
Color	White, black or other colored coatings available
Weight	7.2 oz/yd ² (244 g/m ²) ± 5%

RECOMMENDED APPLICATIONS

Interim Landfill Covers, Liners, Misc. Covers

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16 MIL WOVEN COATED POLYETHYLENE GEOMEMBRANE LINER

PERFORMANCE PROPERTIES

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

TEST METHOD		16 MIL
Thickness	ASTM D1777	Nominal 16 mil (0.50 mm), ± 10%
Grab Tensile	ASTM D7004	MD 210 lb. (932) TD 190 lb. (844)
Strip Tensile	ASTM D7003	MD 135 lb./in (1199) TD 130 lb./in (1154)
Tongue Tear - Large Scale	ASTM D5884	MD 60 lb. (266) TD 60 lb. (266)
Mullen Burst	ASTM D751	375 psi (2584 kPa)
MVTR	ASTM E96 Proc. BM	0.24 g/m² x 24 hr. (0.03 perms)
Hydraulic Conductivity	Calculated from MVTR	5.42 x 10 ⁻¹⁵ cm/s
Hydrostatic Resistance	ASTM D751	97 psi (668 kPa)
Puncture Resistance	ASTM D4833	113 lb. (502 N)
CBR Static Puncture	ASTM D6241	922 lb. (4094 N)
Carbon Black Content	ASTM D4218	3%
Dimensional Stability	ASTM D1204	MD -2.3% TD -2.0%
Low Temp. Flex	ASTM D2136	MD & TD: Pass @ -40°C (-40°F)
HP - OIT	ASTM D5885 (measured on coating formulation)	2122 minutes
Accelerated UV Weathering*	ASTM G151 ASTM G154	>90% strength retention after 2000 hrs. exposure @ 0.77 W/m²/nm, or 1200 hrs. exposure @ 1.35 W/m²/nm

MD = Machine Direction TD = Transverse Direction

* Q.U.V. [A-340 Lamps]; 8 hrs. UV @ 60°C; 4 hrs. condensation @ 50°C

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20 MIL WOVEN COATED POLYETHYLENE GEOMEMBRANE LINER



A heavyweight fabric incorporating a new coating recipe designed to improve toughness and abrasion resistance. This product is intended for exposed applications up to 5 years.

PRODUCT DIMENSIONS

Cores	4 inch I.D. or 5 inch I.D. available (10 cm or 13 cm)
Width	Up to 150 inches (381 cm) (-0, +0.5) as ordered
Length	Minimum 250 yds/roll (229 m); up to 1000 yds/roll (914 m)

RECOMMENDED APPLICATIONS

Interim Landfill Covers, Short-term Liners

PRODUCT SPECIFICATIONS

Weave	Woven black HDPE scrim
Coating	LDPE, 2.5 mil average each side (60 g/m ² /side)
Color	White, black or other colored coatings available
Weight	9.0 oz/yd ² (305 g/m ²) ± 5%

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20 MIL WOVEN COATED POLYETHYLENE GEOMEMBRANE LINER

PERFORMANCE PROPERTIES

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

TEST METHOD		20 MIL
Thickness	ASTM D1777	Nominal 20 mil (0.50 mm), ± 10%
Grab Tensile	ASTM D7004	MD 250 lb. (1110) TD 340 lb. (1510)
Strip Tensile	ASTM D7003	MD 175 lb./in (1554) TD 270 lb./in (2398)
Tongue Tear - Large Scale	ASTM D5884	MD 75 lb. (333) TD 75 lb. (333)
Mullen Burst	ASTM D751	550 psi (3790 kPa)
MVTR	ASTM E96 Proc. BM	0.29 g/m² x 24 hr. (0.04 perms)
Hydraulic Conductivity	Calculated from MVTR	1.02 x 10 ⁻¹⁴ cm/s
Hydrostatic Resistance	ASTM D751	139 psi (958 kPa)
Puncture Resistance	ASTM D4833	140 lb. (622 N)
CBR Static Puncture	ASTM D6241	973 lb. (4320 N)
Carbon Black Content	ASTM D4218	3%
Dimensional Stability	ASTM D1204	MD -2.5% TD -1.8%
Low Temp. Flex	ASTM D2136	MD & TD: Pass @ -65°C (-85°F)
HP - OIT	ASTM D5885 (Measured on coating formulation)	1684 minutes
Accelerated UV Weathering*	ASTM G151 ASTM G154	>90% strength retention after 2000 hrs. exposure @ 0.77 W/m²/nm, or 1200 hrs. exposure @ 1.35 W/m²/nm

MD = Machine Direction TD = Transverse Direction

* Q.U.V. [A-340 Lamps]; 8 hrs. UV @ 60°C; 4 hrs. condensation @ 50°C

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24 MIL WOVEN COATED POLYETHYLENE GEOMEMBRANE LINER



A heavyweight fabric incorporating a special weave pattern to enhance puncture, flatness, and tear properties. The coating recipe is designed to improve toughness and abrasion resistance. This product is intended for exposed applications up to 5 years.

PRODUCT DIMENSIONS

Cores	4 inch I.D. or 5 inch I.D. available (10 cm or 13 cm)
Width	Up to 150 inches (381 cm) (-0, +0.5) as ordered
Length	Minimum 250 yds/roll (229 m); up to 1000 yds/roll (914 m)

PRODUCT SPECIFICATIONS

Weave	Woven black HDPE scrim
Coating	LDPE, 2.4 mil average each side (57 g/m ² /side)
Color	White, black or other colored coatings available
Weight	9.1 oz/yd ² (309 g/m ²) ± 5%

RECOMMENDED APPLICATIONS

Interim Landfill Covers, Containment Liners

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24 MIL WOVEN COATED POLYETHYLENE GEOMEMBRANE LINER

PERFORMANCE PROPERTIES

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

TEST METHOD		24 MIL
Thickness	ASTM D1777	Nominal 24 mil (0.60 mm), ± 10%
Grab Tensile	ASTM D7004	MD 294 lb. (1305) TD 242 lb. (1074)
Strip Tensile	ASTM D7003	MD 240 lb./in (2131) TD 270 lb./in (2398)
Tongue Tear - Large Scale	ASTM D5884	MD 90 lb. (400) TD 92 lb. (408)
Mullen Burst	ASTM D751	530 psi (3652 kPa)
MVTR	ASTM E96 Proc. BM	0.23 g/m ² x 24 hr. (0.03 perms)
Hydraulic Conductivity	Calculated from MVTR	9.79 x 10 ⁻¹⁵ cm/s
Hydrostatic Resistance	ASTM D751	262 psi (1805 kPa)
Puncture Resistance	ASTM D4833	150 lb. (666 N)
CBR Static Puncture	ASTM D6241	993 lb. (4409 N)
Dimensional Stability	ASTM D1204	MD -2.9% TD -1.8%
Low Temp. Flex	ASTM D2136	MD & TD: Pass @ -65°C (-85°F)
HP - OIT	ASTM D5885 (Measured on coating formulation)	1071 minutes
Accelerated UV Weathering*	ASTM D7238	>90% tensile strength retention after 10,000 light hours

MD = Machine Direction TD = Transverse Direction

* Q.U.V. [A-340 Lamps]; 8 hrs. UV @ 75°C; 4 hrs. condensation @ 60°C

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30 MIL WOVEN COATED POLYETHYLENE GEOMEMBRANE LINER



A heavyweight fabric incorporating a special weave pattern to enhance puncture, flatness, and tear properties. The coating recipe is designed to improve toughness and abrasion resistance. This product is intended for exposed applications up to 10 years.

PRODUCT DIMENSIONS

Cores	4 inch I.D. or 5 inch I.D. available (10 cm or 13 cm)
Width	Up to 150 inches (381 cm) (-0, +0.5) as ordered
Length	Minimum 250 yds/roll (229 m); up to 1000 yds/roll (914 m)

PRODUCT SPECIFICATIONS

Weave	Woven black HDPE scrim
Coating	LDPE, 4 mil average each side (95 g/m ² /side)
Color	White, black or other colored coatings available
Weight	12.2 oz/yd ² (414 g/m ²) ± 5%

RECOMMENDED APPLICATIONS

Interim Landfill Covers, Containment Liners

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30 MIL WOVEN COATED POLYETHYLENE GEOMEMBRANE LINER

PERFORMANCE PROPERTIES

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

TEST METHOD		30 MIL
Thickness	ASTM D1777	Nominal 30 mil (0.60 mm), ± 10%
Grab Tensile	ASTM D7004	MD 282 lb. (1252) TD 320 lb. (1421)
Strip Tensile	ASTM D7003	MD 188 lb./in (1669) TD 225 lb./in (1998)
Tongue Tear - Large Scale	ASTM D5884	MD 70 lb. (311) TD 85 lb. (377)
Mullen Burst	ASTM D751	585 psi (4031 kPa)
MVTR	ASTM E96 Proc. BM	0.21 g/m² x 24 hr. (0.03 perms)
Hydraulic Conductivity	Calculated from MVTR	1.46 x 10 ⁻¹⁴ cm/s
Hydrostatic Resistance	ASTM D751	423 psi (2914 kPa)
Puncture Resistance	ASTM D4833	165 lb. (733 N)
CBR Static Puncture	ASTM D6241	1025 lb. (4551 N)
Carbon Black Content	ASTM D4218	3%
Dimensional Stability	ASTM D1204	MD -2.2% TD -1.6%
Low Temp. Flex	ASTM D2136	MD & TD: Pass @ -65°C (-85°F)
HP - OIT	ASTM D5885 (Measured on coating formulation)	1071 minutes
Accelerated UV Weathering*	ASTM D7238	>90% tensile strength retention after 10,000 light hours

MD = Machine Direction TD = Transverse Direction

* Q.U.V. [A-340 Lamps]; 8 hrs. UV @ 75°C; 4 hrs. condensation @ 60°C

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40 MIL WOVEN COATED POLYETHYLENE GEOMEMBRANE LINER



A heavyweight, reinforced polyethylene material with ½ the weight of standard 40 mil non-reinforced HDPE, but with double the physical strength properties. The coating recipe is designed to improve toughness and abrasion resistance. This product is intended for exposed applications up to 15 years.

PRODUCT DIMENSIONS

Cores	4 inch I.D. or 5 inch I.D. available (10 cm or 13 cm)
Width	Up to 150 inches (381 cm) (-0, +0.5) as ordered
Length	Minimum 250 yds/roll (229 m); up to 1000 yds/roll (914 m)

PRODUCT SPECIFICATIONS

Weave	Woven black HDPE scrim
Coating	LDPE, 4 mil average each side (95 g/m ² /side)
Color	White, black or other colored coatings available
Weight	14.2 oz/yd ² (481 g/m ²) ± 5%

RECOMMENDED APPLICATIONS

Permanent Landfill Covers, Containment Liners, Canal Liners

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40 MIL WOVEN COATED POLYETHYLENE GEOMEMBRANE LINER

PERFORMANCE PROPERTIES

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

TEST METHOD		40 MIL
Thickness	ASTM D1777	Nominal 40 mil (1.0 mm), ± 10%
Grab Tensile	ASTM D7004	MD 460 lb. (2042) TD 490 lb. (2146)
Strip Tensile	ASTM D7003	MD 285 lb./in (2531) TD 350 lb./in (3108)
Tongue Tear - Large Scale	ASTM D5884	MD 90 lb. (400) TD 120 lb. (533)
Mullen Burst	ASTM D751	835 psi (5753 kPa)
MVTR	ASTM E96 Proc. BM	0.189 g/m² x 24 hr. (0.02 perms)
Hydraulic Conductivity	Calculated from MVTR	1.37 x 10 ⁻¹⁴ cm/s
Hydrostatic Resistance	ASTM D751	612 psi (4217 kPa)
Puncture Resistance	ASTM D4833	210 lb. (932 N)
CBR Static Puncture	ASTM D6241	1558 lb. (6918 N)
Carbon Black Content	ASTM D4218	3%
Dimensional Stability	ASTM D1204	MD -3.7% TD -2.1%
Low Temp. Flex	ASTM D2136	MD & TD: Pass @ -65°C (-85°F)
HP - OIT	ASTM D5885 (Measured on coating formulation)	2880 minutes
Accelerated UV Weathering*	ASTM D7238	>90% tensile strength retention after 2,000 light hours

MD = Machine Direction TD = Transverse Direction

* Q.U.V. [A-340 Lamps]; 20 hrs. UV @ 75°C; 4 hrs. condensation @ 60°C

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