



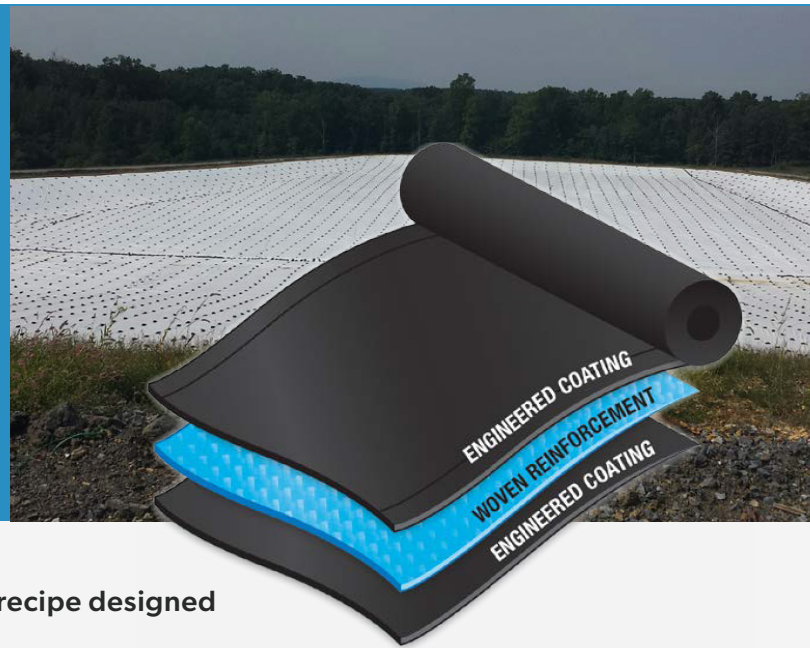
# ERTHA WC Series

WOVEN COATED POLYETHYLENE GEOMEMBRANE LINER  
PRODUCT DATA SHEETS

ERTHA™ IS A SERIES OF PRODUCTS WHOLLY-OWNED BY GEOSOLUTIONS, INC.

# ERTHA WC 12

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

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

## PRODUCT SPECIFICATIONS

|                |   |
|----------------|---|
| <b>Weave</b>   | Woven black HDPE scrim  |
| <b>Coating</b> | LDPE, 1.5 mil average each side (35.6 g/m <sup>2</sup> /side) |
| <b>Color</b>   | Black or other colored coatings available                     |
| <b>Weight</b>  | 5.2 oz/yd <sup>2</sup> (176 g/m <sup>2</sup> ) ± 5%           |

## RECOMMENDED APPLICATIONS

Grain Covers, Temporary Landfill Covers,  
Short-term Liners

### 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/m <sup>2</sup> x 24 hr. (0.05 perms)   |
| Hydraulic Conductivity     | Calculated from MVTR                         | 1.37 x 10 <sup>-14</sup> 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<br>ASTM G154                       | >90% strength retention after 2000 hrs. exposure @ 0.77 W/m <sup>2</sup> /nm, or 1200 hrs. exposure @ 1.35 W/m <sup>2</sup> /nm |

MD = Machine Direction. TD = Transverse Direction.

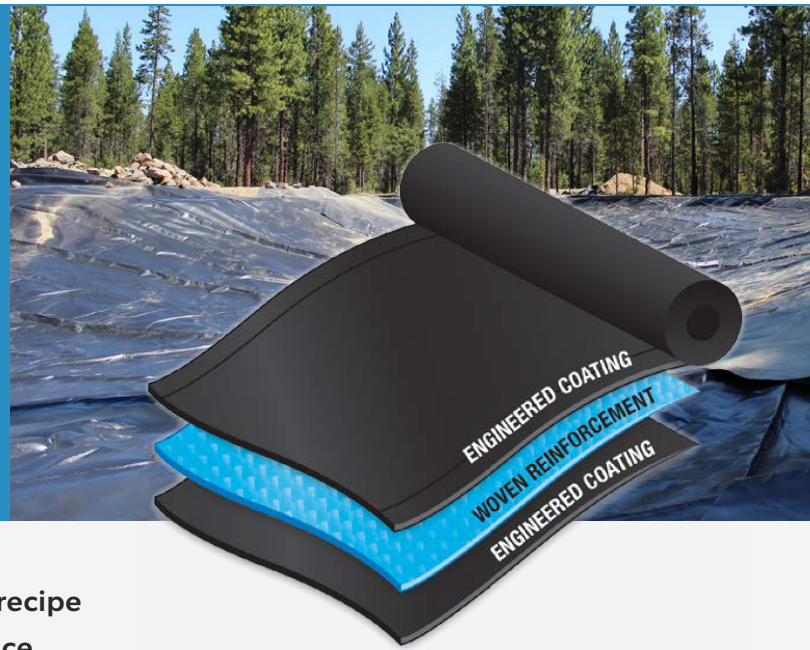
\* Q.U.V. [A-340 Lamps]; 8 hrs. UV @ 60°C; 4 hrs. condensation @ 50°C

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# ERTHA WC 16

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

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

## PRODUCT SPECIFICATIONS

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

## RECOMMENDED APPLICATIONS

Interim Landfill Covers, Liners, Misc. Covers

### 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/m <sup>2</sup> x 24 hr. (0.03 perms)   |
| Hydraulic Conductivity     | Calculated from MVTR                         | 5.42 x 10 <sup>-15</sup> 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<br>ASTM G154                       | >90% strength retention after 2000 hrs. exposure @ 0.77 W/m <sup>2</sup> /nm, or 1200 hrs. exposure @ 1.35 W/m <sup>2</sup> /nm |

MD = Machine Direction. TD = Transverse Direction.

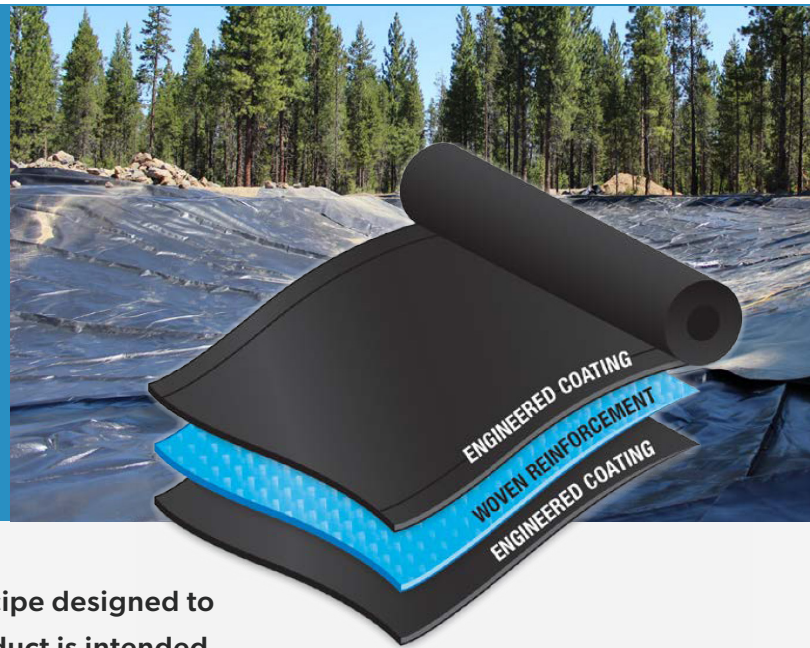
\* Q.U.V. [A-340 Lamps]; 8 hrs. UV @ 60°C; 4 hrs. condensation @ 50°C

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# ERTHA WC 20

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

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

## PRODUCT SPECIFICATIONS

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

## RECOMMENDED APPLICATIONS

Interim Landfill Covers. Short-term Liners

### 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/m <sup>2</sup> x 24 hr. (0.04 perms)   |
| Hydraulic Conductivity     | Calculated from MVTR                         | 1.02 x 10 <sup>-14</sup> 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<br>ASTM G154                       | >90% strength retention after 2000 hrs. exposure @ 0.77 W/m <sup>2</sup> /nm, or 1200 hrs. exposure @ 1.35 W/m <sup>2</sup> /nm |

MD = Machine Direction. TD = Transverse Direction.

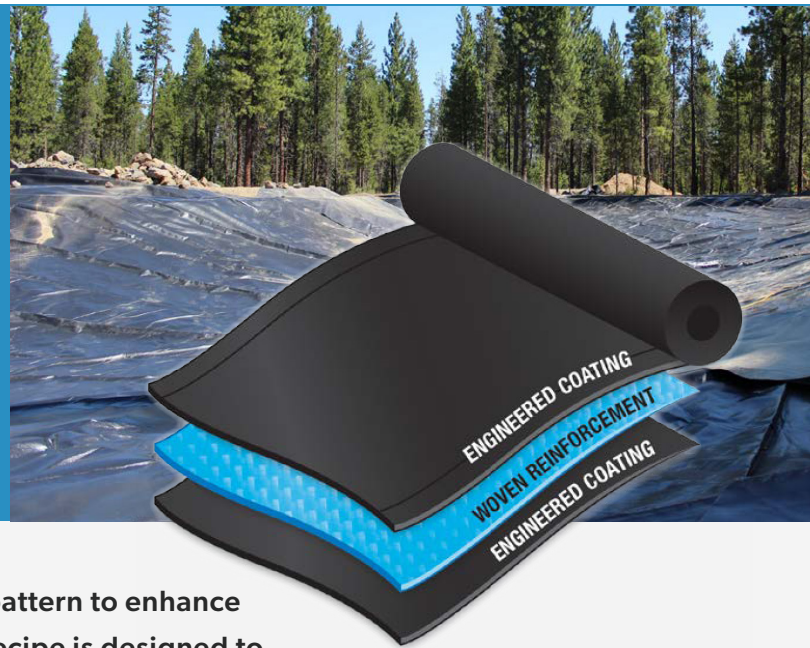
\* Q.U.V. [A-340 Lamps]; 8 hrs. UV @ 60°C; 4 hrs. condensation @ 50°C

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# ERTHA WC 24

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

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

## PRODUCT SPECIFICATIONS

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

## RECOMMENDED APPLICATIONS

Interim Landfill Covers. Containment Liners



### 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 <sup>2</sup> x 24 hr. (0.03 perms)              |
| Hydraulic Conductivity     | Calculated from MVTR                         | 9.79 x 10 <sup>-15</sup> 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.

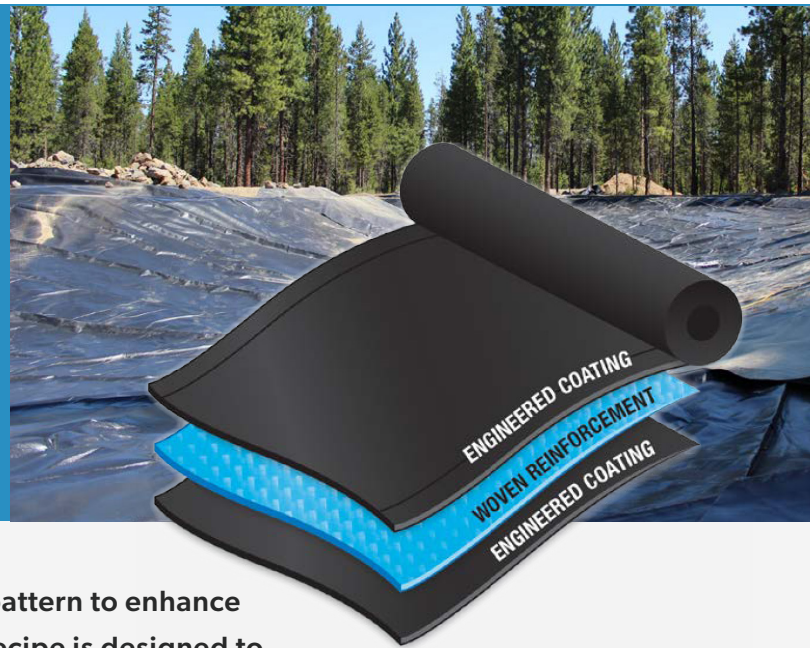
\* Q.U.V. [A-340 Lamps]; 8 hrs. UV @ 75°C; 4 hrs. condensation @ 60°C

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# ERTHA WC 30

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

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

## PRODUCT SPECIFICATIONS

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

## RECOMMENDED APPLICATIONS

Interim Landfill Covers, Containment Liners

### 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/m <sup>2</sup> x 24 hr. (0.03 perms)              |
| Hydraulic Conductivity     | Calculated from MVTR                         | 1.46 x 10 <sup>-14</sup> 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.

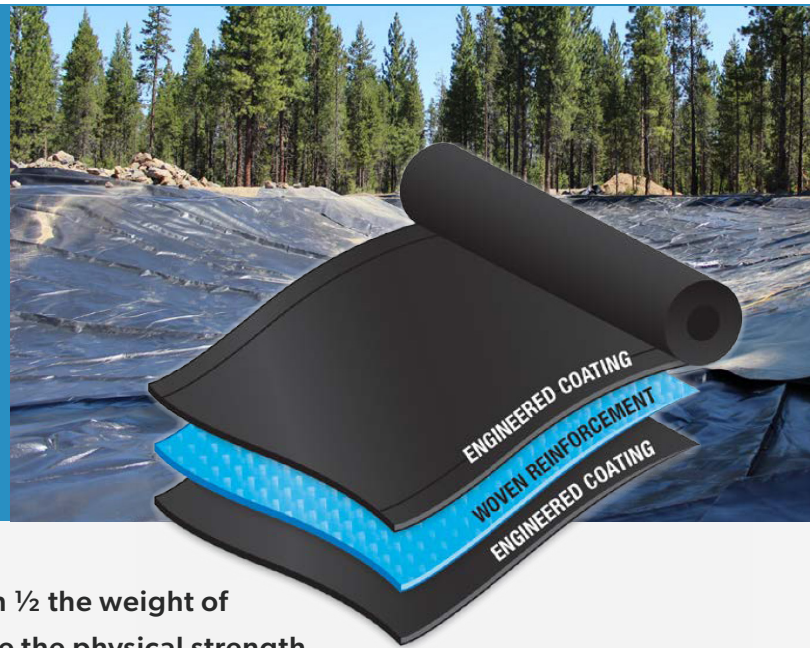
\* Q.U.V. [A-340 Lamps]; 8 hrs. UV @ 75°C; 4 hrs. condensation @ 60°C

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# ERTHA WC 40

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

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

## PRODUCT SPECIFICATIONS

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

## RECOMMENDED APPLICATIONS

Permanent Landfill Covers, Containment Liners, Canal Liners

### 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/m <sup>2</sup> x 24 hr. (0.02 perms)            |
| Hydraulic Conductivity     | Calculated from MVTR                         | 1.37 x 10 <sup>-14</sup> 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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