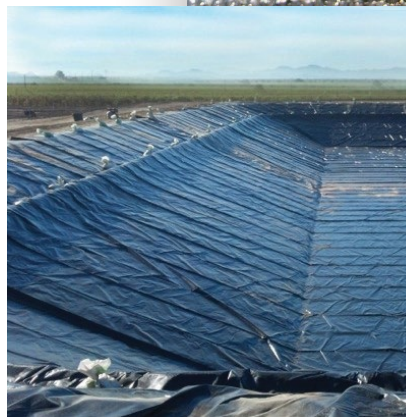




**STRONGER
LIGHTER
FASTER
GEOMEMBRANE
SOLUTIONS**



AquaMaster[®]
STRONGER LIGHTER FASTER



AQUAMASTER® GEOMEMBRANES



From agricultural irrigation to industrial applications, AquaMaster® is the proven choice for your site requirements.

AquaMaster from IPG® provides sound solutions for water resource management and a wide range of civic and industrial applications such as conventional and non-conventional oil and gas extraction, irrigation reservoirs and canals, mining applications and temporary waste covers. With enhanced hydrostatic resistance and our high tear strength scrim technology, our AquaMaster lining is guaranteed to meet your containment needs.

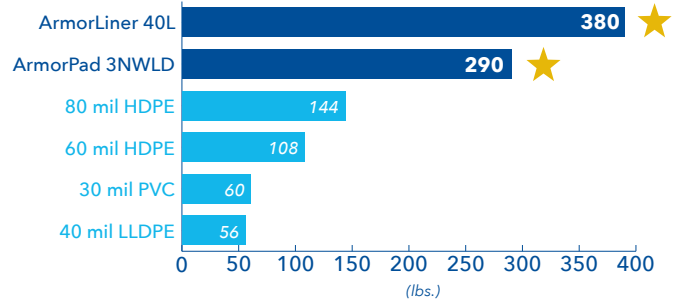
Our geomembrane portfolio is comprised of two product families: NovaLiner® for standard applications and our ArmorLiner® for more demanding applications, both with warranties up to 20 years.

DESIGNED FOR EASY INSTALLATION AND LONG LIFE

AquaMaster woven coated fabric liners & covers incorporate exclusive polyolefin coatings for maximum toughness and abrasion resistance. These liners are available in heavy, medium and lightweight fabrics with varying coating thicknesses and colors depending on your site requirements.

AquaMaster liners & covers feature unique benefits that make it the most effective and economical choice.

PUNCTURE RESISTANCE ASTM D4833



DESIGNED FOR CONTAINMENT

Whether your jobsite is in the arid regions of the American Southwest or the Canadian Arctic, IPG has the right product for your needs. The exclusive AquaMaster product line is the perfect choice for a wide range of containment applications. Our product line is certified drinking water safe to NSF-61, the most respected independent water testing organization in America.



Certified to
NSF/ANSI 61

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**ARMOR
PAD**



**ARMOR
LINER**

NOVA GRIP™

NOVA LINER

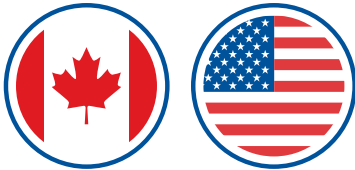
BENEFITS

- Wider widths which mean fewer field seams
- Can be factory prefabricated for faster and easier installations
- Added strength for puncture and tear resistance
- Engineered coatings provide exceptional hydrostatic resistance and heat seaming weldability
- Technologically designed for UV resistance
- Custom colors available
- Lighter weight for more cost effective transportation

STRONGER
THAN HDPE

LIGHTER
ROLL WEIGHT

FASTER
INSTALLATION TIME



PROUDLY MADE IN
NORTH AMERICA
WITH GLOBALLY SOURCED MATERIALS



APPLICATIONS

Water Management

- Settling basins
- Landfill reservoirs
- Golf course ponds and other aesthetic features
- Snowmaking water reserve ponds
- Canal linings

Municipal

- Fire reservoirs
- Road construction and other D.O.T. applications
- Storm water detention and retention ponds
- Drainage systems
- Waste water containment
- Secondary containment

Oil & Gas

- Hydraulic fracturing wastewater containment
- Evaporation ponds
- Temporary and permanent oilfield pit liners
- Rig site protection

Aquacultural & Agricultural

- Algae harvesting support ponds
- Irrigation canals and ponds
- Aquaculture tank liners
- Raceway ponds



Learn more about AquaMaster by going to <https://ecp.itape.com/geomembrane-solutions/> or by scanning the QR code



DOUBLE NON-WOVEN LAMINATE

ArmorPad 3NWL

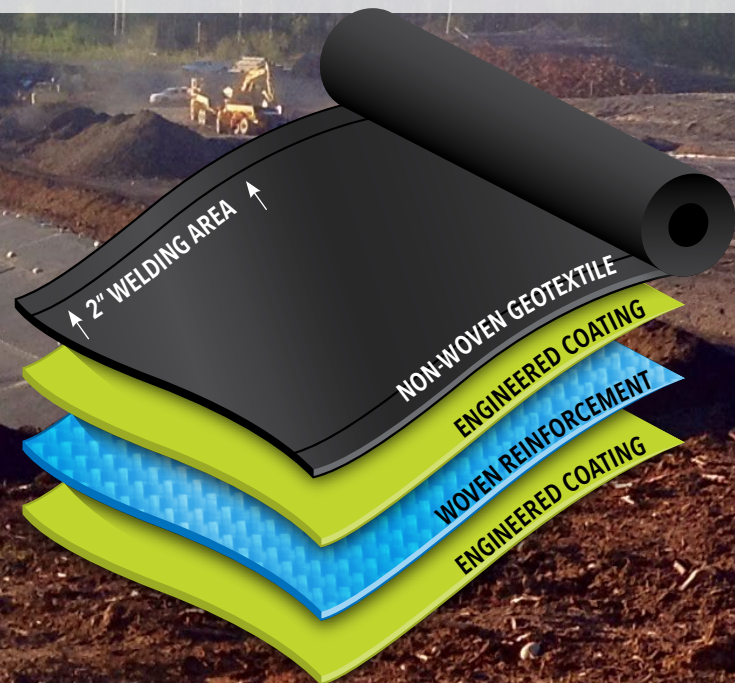
Property	ASTM	Specification
Base Fabric		Black HDPE
Coating		LDPE + PP Nonwoven
Weight oz/sq yd (gsm)	D5261	13.9 (471) +/- 5%
Thickness (w/o Non-woven) mils (mm)	D1777	24 (0.60) +/- 10%
Grab Tensile lb (N)	D7004	MD 334 lb (1486) / TD 223 lb (992)
Tongue Tear - Large Scale lb (N)	D5884	MD 100 (444) / TD 100 (444)
Mullen Burst psi (kPa)	D751	660 (4554)
Hydrostatic Resistance psi (kPa)	D751	400 (2756)
Hydraulic Conductivity cm/s	Calc. MVTR E96	2.68×10^{-14}
Puncture Resistance lb (N)	D4833	230 (1023)
CBR Static Puncture lb (N)	D6241	1128 (5016)
Dimensional Stability %	D1204	MD -1.9 / TD -1.4
Low Temperature Flex	D2136	MD&TD: Pass @ -40°C (-40°F)
Accelerated UV Weathering* % Retained Strength	G154	>90
Limited Warranty (Buried) Years		20

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

ArmorPad® 3NWL (non-woven laminate) is a medium weight woven coated geomembrane with a single lightweight non-woven laminated to one side. This provides a strong and reliable barrier to water, industrial contaminants and other fluids. The non-woven layer reduces slip occurrence on the top surface, or provides adhesion for concrete, while increasing the puncture resistance when placed facing down.

Recommended Applications: Canal Lining, Well Pads

Warranty: 20 years buried

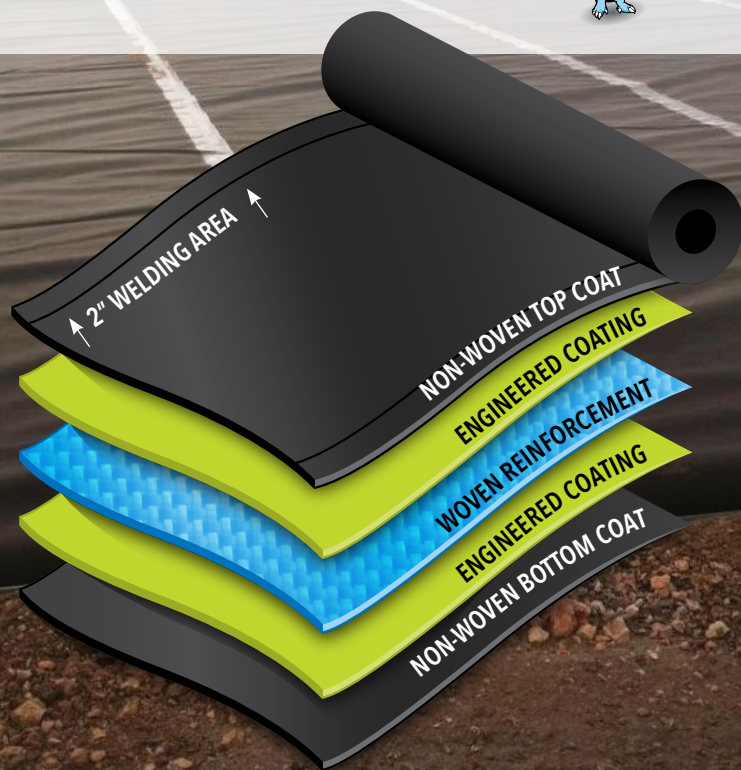


DOUBLE NON-WOVEN LAMINATE

ArmorPad® 3NWLD is a medium weight woven coated geomembrane with a double lightweight non-woven laminated layer, which provide increased barrier to water, other fluids and industrial contaminants. The non-woven layer on the top reduces slip occurrence, or provides adhesion for concrete, while the non-woven bottom layer increases puncture and tear resistance.

Recommended Applications: Canal Lining, Well Pads

Warranty: 20 years buried



ArmorPad 3NWLD

Property	ASTM	Specification
Base Fabric		Black HDPE
Coating		LDPE
Weight oz/sq yd (gsm)	D5261	18 (610) +/- 5%
Thickness mils (mm)	D1777	24 (0.60) +/- 10%
Grab Tensile lb (N)	D7004	MD 526 (2340) TD 409 (1819)
Tongue Tear - Large Scale lb (N)	D5884	MD 90 (400) TD 110 (489)
Mullen Burst psi (kPa)	D751	790 (5451)
Hydrostatic Resistance psi (kPa)	D751	400 (2756)
Hydraulic Conductivity cm/s	Calc. MVTR E96	3.94×10^{-14}
Puncture Resistance lb (N)	D4833	290 (1290)
CBR Static Puncture lb	D6241	1351 (5998)
Dimensional Stability %	D1204	MD -1.5 / TD -1.0
Low Temperature Flex	D2136	MD&TD: Pass @ -40°C (-40°F)
Accelerated UV Weathering* % Retained Strength	G154	>90
Limited Warranty (Buried) Years		20

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

PREMIUM LINER/COVER

ArmorLiner 24

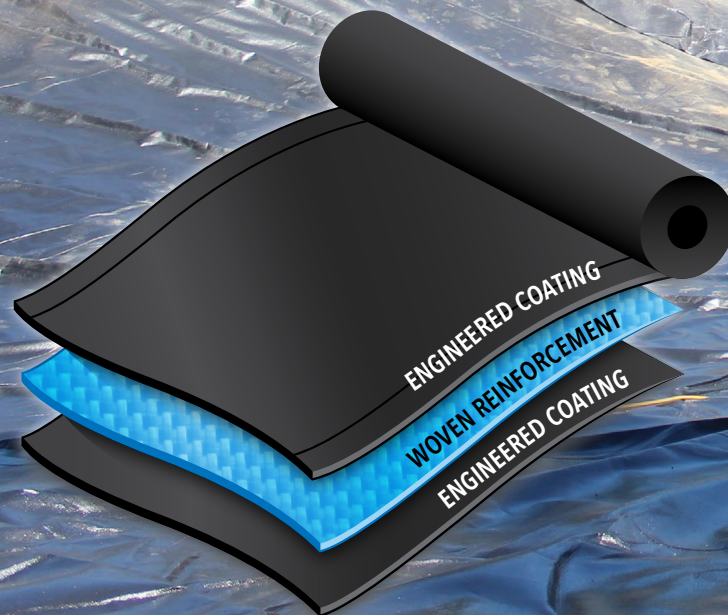
Property	ASTM	Specification
Base Fabric		Black HDPE
Coating		LDPE
Weight oz/sq yd (gsm)	D5261	11.5 (390)
Thickness mils (mm)	D1777	24 (0.60) +/- 10%
Grab Tensile lb (N)	D7004	MD 361 (1601) TD 323 (1437)
Tongue Tear - Large Scale lb (N)	D5884	MD 120 (534) TD 115 (512)
Mullen Burst psi (kPa)	D751	640 (4416)
Hydrostatic Resistance psi (kPa)	D751	425 (2928)
Hydraulic Conductivity cm/s	Calc. MVTR E96	6.94×10^{-15}
Puncture Resistance lb (N)	D4833	195 (867)
CBR Static Puncture lb (N)	D6241	1157 (5137)
Dimensional Stability %	D1204	MD -2.7 / TD -1.4
Low Temperature Flex	D2136	MD&TD: Pass @ -65°C (-85°F)
Accelerated UV Weathering* % Retained Strength	D7238	>90
Limited Warranty (Exposed) Years		15
Limited Warranty (Buried) Years		25

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

Our ArmorLiner® 24 is a premium reinforced geomembrane with a woven HDPE fabric that increases puncture resistance. This tough membrane is still flexible enough for easy installation in complex projects. ArmorLiner 24 has superior tear resistance and is perfect for long term exposure applications.

Recommended Applications: Decorative Ponds, Canal Reservoirs, Waste Water Containment, Secondary Containment

Warranty: 15 years (exposed);
25 years (buried)

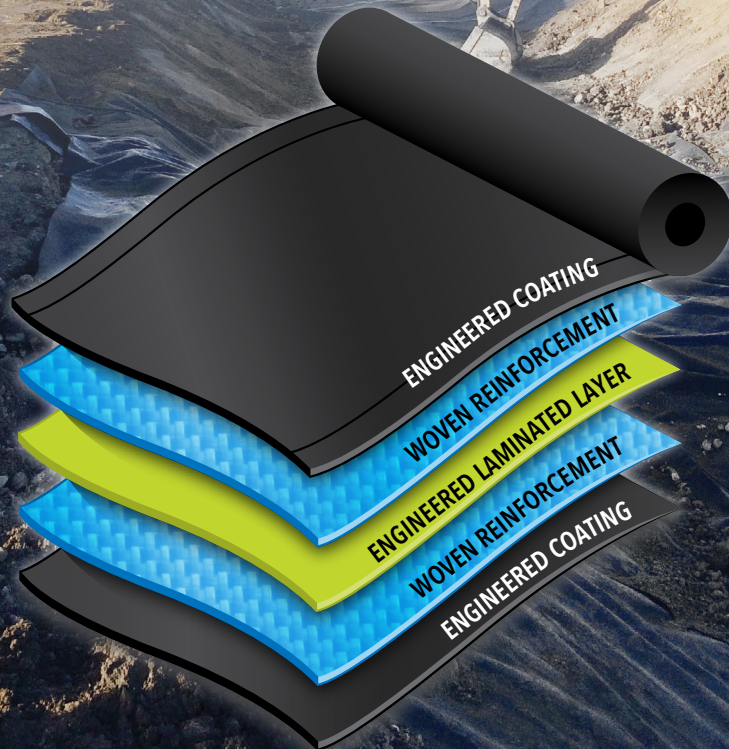


DOUBLE SCRIM LAMINATE

ArmorLiner® 40L is our premium double scrim membrane that has one of the highest puncture resistance values in the industry. With excellent UV resistance, this product will survive long term, exposed applications.

Recommended Applications: Mining, Coal/Ash Remediation, Large Reservoirs, Waste Water Containment, Secondary Containment

Warranty: 20 years (exposed);
25 years (buried)



ArmorLiner 40L

Property	ASTM	Specification
Base Fabric		Black HDPE
Coating		LDPE
Weight oz/sq yd (gsm)	D5261	18.5 (627)
Thickness mils (mm)	D1777	40 (1.0) +/- 10%
Grab Tensile lb (N)	D7004	MD 713 (3172) TD 674 (2998)
Tongue Tear - Large Scale lb (N)	D5884	MD 165 (734) TD 155 (689)
Mullen Burst psi (kPa)	D751	1300 (8957)
Hydrostatic Resistance psi (kPa)	D751	685 (4720)
Hydraulic Conductivity cm/s	Calc. MVTR E96	1.66×10^{-14}
Puncture Resistance lb (N)	D4833	380 (1690)
CBR Static Puncture lb (N)	D6241	2356 (10461)
Dimensional Stability %	D1204	MD -2.2 / TD -1.8
Low Temperature Flex	D2136	MD&TD: Pass @ -65°C (-85°F)
Accelerated UV Weathering* % Retained Strength	D7238	>90
Limited Warranty (Exposed) Years		20
Limited Warranty (Buried) Years		25

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

DOUBLE SCRIM LAMINATE

ArmorLiner 60L

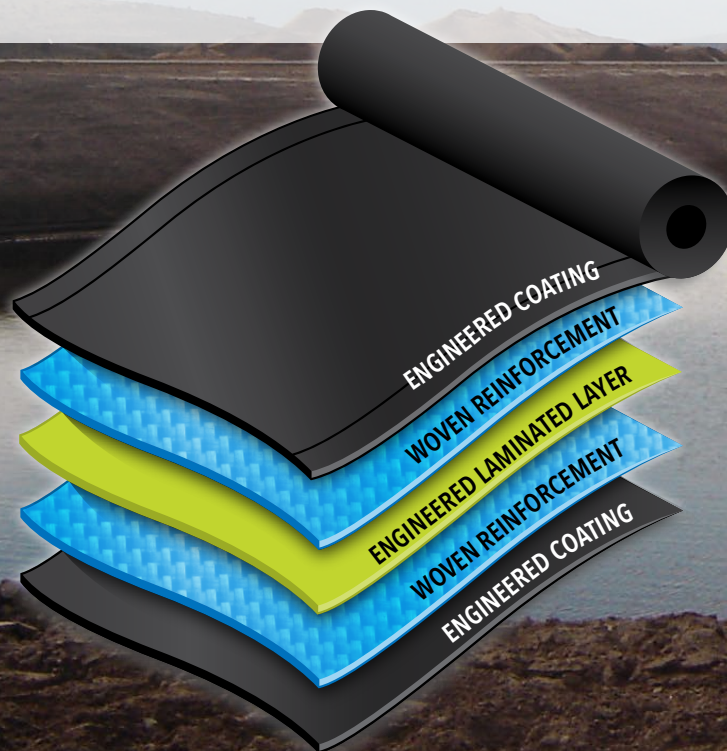
Property	ASTM	Specification
Base Fabric		Black HDPE
Coating		LDPE
Weight oz/sq yd (gsm)	D5261	26.7 (905)
Thickness mils (mm)	D1777	60 (1.5)
Grab Tensile lb (N)	D7004	MD 644 (2865) TD 674 (2998)
Tongue Tear - Large Scale lb (N)	D5884	MD 55 (245) TD 90 (400)
Mullen Burst psi (kPa)	D751	1200 (8280)
Hydrostatic Resistance psi (kPa)	D751	1154 (7957)
Hydraulic Conductivity cm/s	Calc. MVTR E96	3.11×10^{-12}
Puncture Resistance lb (N)	D4833	350 (1557)
CBR Static Puncture lb (N)	D6241	2126 (9457)
Dimensional Stability %	D1204	MD -2.0 / TD -1.5
Low Temperature Flex	D2136	MD&TD: Pass @ -65°C (-85°F)
Accelerated UV Weathering* % Retained Strength	D7238	>90
Limited Warranty (Exposed) Years		20
Limited Warranty (Buried) Years		25

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

ArmorLiner® 60L is 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.

Recommended Applications: Mining, Coal/Ash Remediation, Large Reservoirs, Oil & Gas Rig Site Containment, Long Term Liners

Warranty: 20 years (exposed);
25 years (buried)



SINGLE FILM LAMINATE

The ArmorLiner® 30SFL (Single Film Laminate) is a 30 mil heavy duty membrane that offers superior puncture and hydrostatic resistance properties. ArmorLiner 30SFL is the proven choice for demanding geomembrane water containment applications. The exclusive ArmorLiner 30SFL is technologically designed to provide the characteristics that you demand from both an installation and performance standpoint.

Recommended Applications: Hydraulic Fracturing, Tank Liners, Water Reservoirs, Heavy Duty Containment Projects

Warranty: 20 years (exposed);
25 years (buried)



ArmorLiner 30SFL

Property	ASTM	Specification
Base Fabric		Black HDPE
Coating		LDPE
Weight oz/sq yd (gsm)	D5261	14.7 (498)
Thickness mils (mm)	D1777	30 (0.75)**
Grab Tensile lb (N)	D7004	MD 409 (1819) TD 376 (1672)
Tongue Tear - Large Scale lb (N)	D5884	MD 85 (378) TD 90 (400)
Mullen Burst psi (kPa)	D751	690 (4761)
Hydrostatic Resistance psi (kPa)	D751	635 (4375)
Hydraulic Conductivity cm/s	Calc. MVTR E96	5.09×10^{-15}
Puncture Resistance lb (N)	D4833	205 (912)
CBR Static Puncture lb (N)	D6241	1272 (5658)
Dimensional Stability %	D1204	MD -2.9 / TD -1.0
Low Temperature Flex	D2136	MD&TD: Pass @ -65°C (-85°F)
Accelerated UV Weathering* % Retained Strength	D7238	>90
Limited Warranty (Exposed) Years		20
Limited Warranty (Buried) Years		25

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

SINGLE FILM LAMINATE

ArmorLiner 40SFL

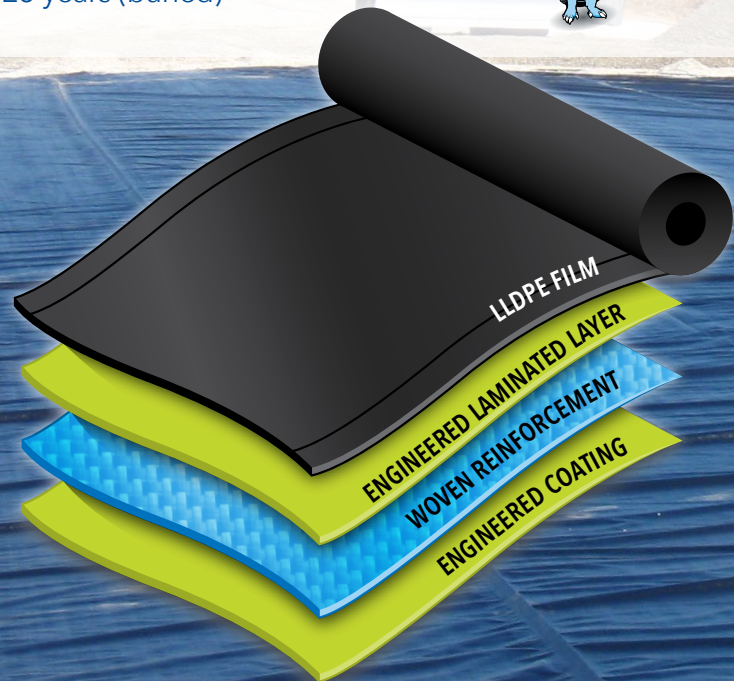
Property	ASTM	Specification
Base Fabric		Black HDPE
Coating		LDPE
Weight oz/sq yd (gsm)	D5261	18.0(610.0)
Thickness mils (mm)	D1777	40 (1.0)
Grab Tensile lb (N)	D7004	MD 492 (2189) TD 512 (2278)
Tongue Tear - Large Scale lb (N)	D5884	MD 85 (378) / TD 125 (556)
Mullen Burst psi (kPa)	D751	780 (5382)
Hydrostatic Resistance psi (kPa)	D751	730 (5033)
Hydraulic Conductivity cm/s	Calc. MVTR E96	5.09×10^{-15}
Puncture Resistance lb (N)	D4833	260 (1156)
CBR Static Puncture lb (N)	D6241	1375 (6145)
Dimensional Stability %	D1204	MD -3.3 / TD -2.5
Low Temperature Flex	D2136	MD&TD: Pass @ -65°C (-85°F)
Accelerated UV Weathering* % Retained Strength	D7238	>90
Limited Warranty (Exposed) Years		20
Limited Warranty (Buried) Years		25

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

ArmorLiner® 40SFL (Single Film Laminate) is a 40 mil heavy duty membrane that offers superior puncture and hydrostatic resistance properties. ArmorLiner 40SFL is the proven choice for demanding geomembrane water containment applications. The exclusive ArmorLiner 40SFL is technologically designed to provide the characteristics that you demand from both an installation and performance standpoint.

Recommended Applications: Hydraulic Fracturing, Tank Liners, Water Reservoirs, Heavy Duty Containment Projects

Warranty: 20 years (exposed);
25 years (buried)



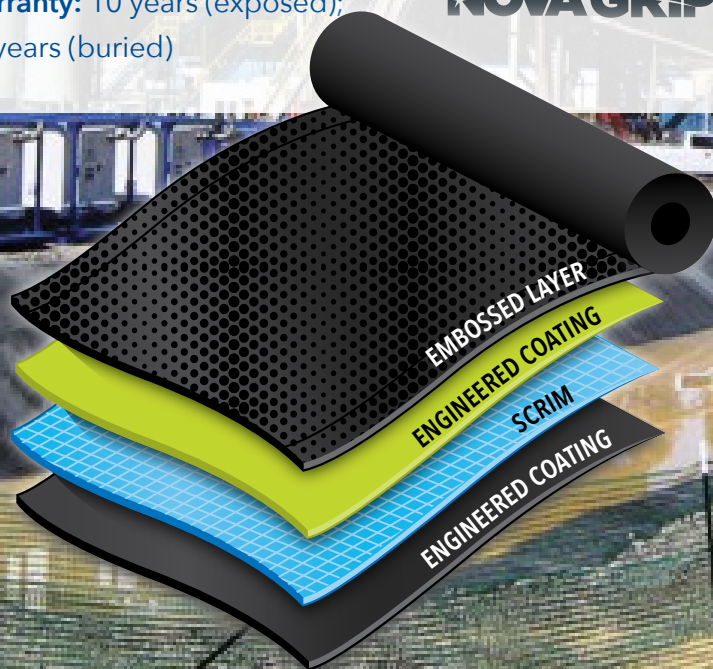
TEXTURED GEOMEMBRANE

NovaGrip® 30 is a 30 mil geomembrane with an aggressive raised embossed pattern on one side of the membrane. This textured surface can be used to provide a slip resistant surface or to hold soil on a side slope. NovaGrip 30 is an effective safeguard against slips & falls on job-site locations. As always, our geomembranes are resistant to a range of chemicals and hydrocarbons, helping our customers keep the environment safe from contaminants.

Recommended Applications: Oil & Gas Rig Sites, Soil Stabilization, Secondary Containment, Landfill Cap, Water Containment Pond

Warranty: 10 years (exposed);
20 years (buried)

NOVAGRIP™



NovaGrip 30

Property	ASTM	Specification
Base Fabric		Black HDPE
Coating		LDPE
Weight oz/sq yd (gsm)	D5261	14.5 (493) +/- 5%
Thickness without texture mils (mm)	D1777	30 (0.68) ± 10%
Asperity Height mils (mm)	D7466	>20 (>0.5)
Grab Tensile lb (N)	D7004	MD 355 (1579) TD 274 (1219)
Tongue Tear - Large Scale lb (N)	D5884	MD 80 (356) TD 90 (400)
Mullen Burst psi (kPa)	D751	580 (4002)
Hydrostatic Resistance psi (kPa)	D751	370 (2549)
Hydraulic Conductivity cm/s	Calc. MVTR E96	7.68×10^{-15}
Puncture Resistance lb (N)	D4833	160 (712)
CBR Static Puncture lb (N)	D6241	985 (4379)
Dimensional Stability %	D1204	MD -1.3 / TD -0.7
Low Temperature Flex	D2136	MD&TD: Pass @ -65°C (-85°F)
Limited Warranty (Exposed) Years		10
Limited Warranty (Buried) Years		20

STANDARD GRADE LINER/COVER

NovaLiner 12

Property	ASTM	Specification
Base Fabric		Black HDPE
Coating		LDPE
Weight oz/sq yd (gsm)	D5261	5.2 (176)
Thickness mils (mm)	D1777	12 (0.30) +/- 10%
Grab Tensile lb (N)	D7004	MD 181 (805) TD 167 (743)
Tongue Tear - Large Scale lb (N)	D5884	MD 85 (378) TD 95 (423)
Mullen Burst psi (kPa)	D751	315 (2174)
Hydrostatic Resistance psi (kPa)	D751	130 (896)
Hydraulic Conductivity cm/s	Calc. MVTR E96	1.37×10^{-14}
Puncture Resistance lb (N)	D4833	95 (423)
CBR Static Puncture lb (N)	D6241	530 (2353)
Dimensional Stability %	D1204	MD -2.9 / TD -2.2
Low Temperature Flex	D2136	MD&TD: Pass @ -40°C (-40°F)
Accelerated UV Weathering* % Retained Strength	G154	>90
Limited Warranty (Exposed) Years		5
Limited Warranty (Buried) Years		10

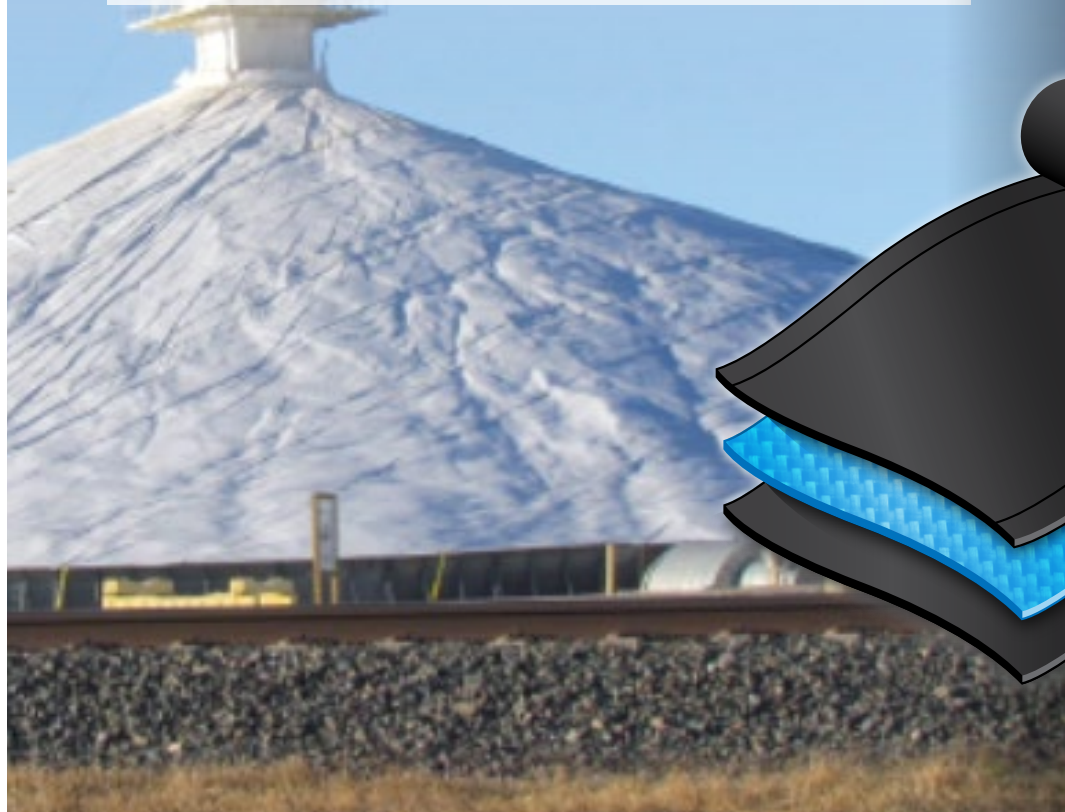
*Q.UV [A-340 Lamps]; 8 hrs UV @ 60°C; 4 hrs condensation @ 50°C

NovaLiner® 12 is our lightweight, but extremely strong liner/cover for temporary applications up to 5 years exposed. This 12 mil reinforced polyethylene material provides excellent protection against rain and UV exposure, protecting the covered products from the harsh environment.

Recommended Applications: Grain Covers, Temporary Landfill Covers, Short-term Liners

Warranty: 5 years (exposed);
10 years (buried)

NOVA LINER



STANDARD GRADE LINER/COVER

NovaLiner® 16 utilizes a thicker scrim and coating for increased puncture and tensile strength. This 16 mil thick material is perfect for temporary applications requiring a lightweight, but tough, liner or cover.

Recommended Applications: Grain Covers, Temporary Landfill Covers

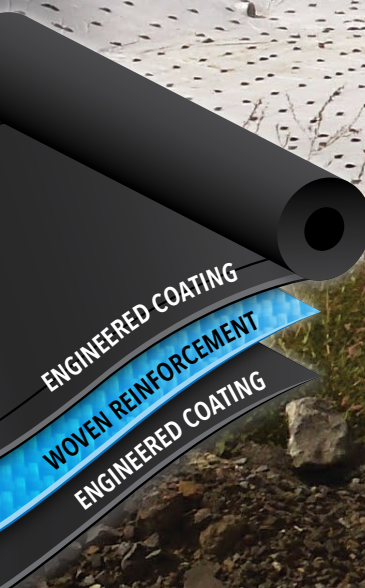
Warranty: 5 years (exposed);
10 years (buried)

NOVA LINER

NovaLiner 16

Property	ASTM	Specification
Base Fabric		Black HDPE
Coating		LDPE
Weight oz/sq yd (gsm)	D5261	7.2 (244)
Thickness mils (mm)	D1777	16 (0.40) +/- 10%
Grab Tensile lb (N)	D7004	MD 182 (810) TD 225 (1001)
Tongue Tear - Large Scale lb (N)	D5884	MD 60 (266) / TD 60 (266)
Mullen Burst psi (kPa)	D751	375 (2584)
Hydrostatic Resistance psi (kPa)	D751	97 (668)
Hydraulic Conductivity cm/s	Calc. MVTR E96	5.42×10^{-15}
Puncture Resistance lb (N)	D4833	113 (502)
CBR Static Puncture lb (N)	D6241	922 (4094)
Dimensional Stability %	D1204	MD -2.3 / TD -2.0
Low Temperature Flex	D2136	MD&TD: Pass @ -40°C (-40°F)
Accelerated UV Weathering* % Retained Strength	G154	>90
Limited Warranty (Exposed) Years		5
Limited Warranty (Buried) Years		10

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



STANDARD GRADE LINER/COVER

NovaLiner 20

Property	ASTM	Specification
Base Fabric		Black HDPE
Coating		LDPE
Weight oz/sq yd (gsm)	D5261	9.0 (305)
Thickness mils (mm)	D1777	20 (0.50) +/- 10%
Grab Tensile lb (N)	D7004	MD 266 (1183) TD 348 (1548)
Tongue Tear - Large Scale lb (N)	D5884	MD 90 (400) TD 110 (489)
Mullen Burst psi (kPa)	D751	570 (3933)
Hydrostatic Resistance psi (kPa)	D751	139 (958)
Hydraulic Conductivity cm/s	Calc. MVTR E96	1.02×10^{-14}
Puncture Resistance lb (N)	D4833	155 (689)
CBR Static Puncture lb (N)	D6241	973 (4320)
Dimensional Stability %	D1204	MD -2.5 / TD -1.8
Low Temperature Flex	D2136	MD&TD: Pass @ -65°C (-85°F)
Accelerated UV Weathering* % Retained Strength	G154	>90
Limited Warranty (Exposed) Years		5
Limited Warranty (Buried) Years		10

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

NovaLiner® 20 is our medium weight liner/cover that incorporates our special weave pattern to enhance flatness and tear properties. The special coating is designed to provide toughness and abrasion resistance while maintaining its excellent UV protection.

Recommended Applications: Interim Landfill Covers, Containment Liners

Warranty: 5 years (exposed);
10 years (buried)

NOVA LINER

STANDARD GRADE LINER/COVER

Novaliner® 24 is our 24 mil fabric that utilizes a special scrim to enhance thickness, 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.

Recommended Applications: Interim Landfill Covers, Containment Liners

Warranty: 10 years (exposed);
15 years (buried)

NOVA LINER

NovaLiner 24

Property	ASTM	Specification
Base Fabric		Black HDPE
Coating		LDPE
Weight oz/sq yd (gsm)	D5261	9.1 (309)
Thickness mils (mm)	D1777	24 (0.60) +/- 10%
Grab Tensile lb (N)	D7004	MD 313 (1392) TD 246 (1094)
Tongue Tear - Large Scale lb (N)	D5884	MD 115 (512) TD 120 (534)
Mullen Burst psi (kPa)	D751	560 (3864)
Hydrostatic Resistance psi (kPa)	D751	262 (1805)
Hydraulic Conductivity cm/s	Calc. MVTR E96	9.79×10^{-15}
Puncture Resistance lb (N)	D4833	150 (666)
CBR Static Puncture lb (N)	D6241	993 (4409)
Dimensional Stability %	D1204	MD -2.9/ TD -1.8
Low Temperature Flex	D2136	MD&TD: Pass @ -65°C (-85°F)
Accelerated UV Weathering* % Retained Strength	D7238	>90
Limited Warranty (Exposed) Years		10
Limited Warranty (Buried) Years		15

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

ENGINEERED COATING
WOVEN REINFORCEMENT
ENGINEERED COATING

STANDARD GRADE LINER/COVER

NovaLiner 30

Property	ASTM	Specification
Base Fabric		Black HDPE
Coating		LDPE
Weight oz/sq yd (gsm)	D5261	12.2 (414)
Thickness mils (mm)	D1777	30 (0.75) +/- 10%
Grab Tensile lb (N)	D7004	MD 317 (1410) TD 317 (1410)
Tongue Tear - Large Scale lb (N)	D5884	MD 70 (311) TD 90 (400)
Mullen Burst psi (kPa)	D751	550 (3795)
Hydrostatic Resistance psi (kPa)	D751	423 (2914)
Hydraulic Conductivity cm/s	Calc. MVTR E96	1.46×10^{-14}
Puncture Resistance lb (N)	D4833	175 (778)
CBR Static Puncture lb (N)	D6241	1025 (4551)
Dimensional Stability %	D1204	MD -2.2 / TD -1.6
Low Temperature Flex	D2136	MD&TD: Pass @ -65°C (-85°F)
Accelerated UV Weathering* % Retained Strength	D7238	>90
Limited Warranty (Exposed) Years		15
Limited Warranty (Buried) Years		25

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

NovaLiner® 30 is a popular universal material utilizing a heavy-duty scrim that increases puncture strength properties. The extra heavy coating provides ease of field welding and maximizes Hydrostatic Resistance for demanding water containment applications.

Recommended Applications: Water Reservoirs, Canals, Oil & Gas Frac Pits

Warranty: 15 years (exposed);
25 years (buried)

NOVA LINER



STANDARD GRADE LINER/COVER

NovaLiner® 40 is our heaviest “Standard Grade” material which incorporates a heavy duty scrim for increased puncture and tensile properties. This product, like all AquaMaster® products, can be fabricated and rolled into large panels while being very competitive with standard non-reinforced HDPE and LLDPE materials.

Recommended Applications: Water Reservoirs, Canals, Oil & Gas Frac Pits

Warranty: 20 years (exposed);
25 years (buried)

NOVA LINER

NovaLiner 40

Property	ASTM	Specification
Base Fabric		Black HDPE
Coating		LDPE
Weight oz/sq yd (gsm)	D5261	14.2 (481)
Thickness mils (mm)	D1777	40 (1.0) +/- 10%
Grab Tensile lb (N)	D7004	MD 446 (1984) TD 481 (2140)
Tongue Tear - Large Scale lb (N)	D5884	MD 110 (490) TD 140 (623)
Mullen Burst psi (kPa)	D751	835 (5753)
Hydrostatic Resistance psi (kPa)	D751	612 (4217)
Hydraulic Conductivity cm/s	Calc. MVTR E96	1.37×10^{-14}
Puncture Resistance lb (N)	D4833	210 (932)
CBR Static Puncture lb (N)	D6241	1558 (6918)
Dimensional Stability %	D1204	MD -3.7 / TD -2.1
Low Temperature Flex	D2136	MD&TD: Pass @ -65°C (-85°F)
Accelerated UV Weathering* % Retained Strength	D7238	>90
Limited Warranty (Exposed) Years		20
Limited Warranty (Buried) Years		25

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



USA

1. Ansonia, CT
2. Atlanta, GA
3. Bardstown, KY (2)
5. Blythewood, SC
6. Brighton, CO
7. Carbondale, IL
8. Carlstadt, NJ
9. Carrollton, TX
10. Chicago, IL
11. Corona, CA
12. Danville, VA
13. Everetts, NC
14. Marysville, MI
15. Menasha, WI
16. Midland, NC
17. Sarasota, FL
18. Schaumburg, IL
19. Springfield, OH
20. Tremonton, UT

CANADA

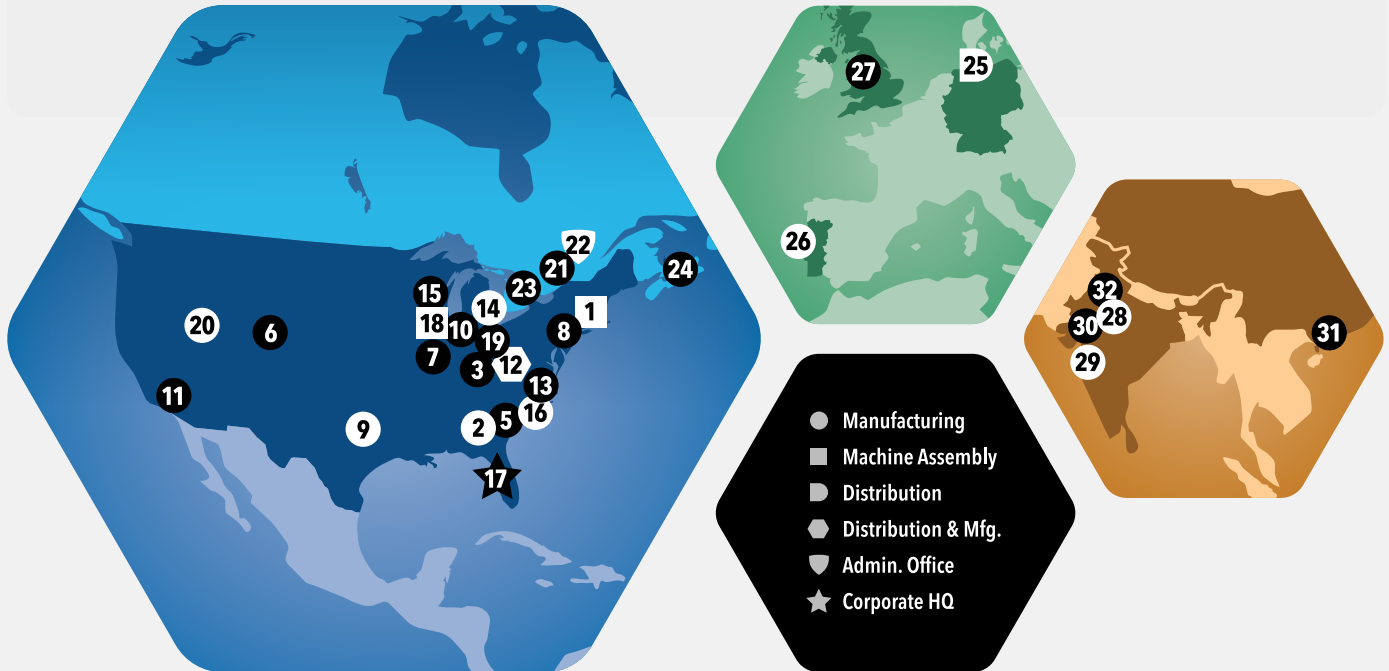
21. Cornwall, ON
22. Montreal, QC
23. Toronto, ON
24. Truro, NS

EU/UK

25. Flensburg, Germany
26. Porto, Portugal
27. Widnes, UK

ASIA

28. Chopanki, India
29. Daman, India
30. Dahej, India
31. Jiangmen City, China
32. Karoli, India



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