

POLYGOMMA™

for generations and beyond...

EPDM POND LINERS





The Polygamma™ Pond Liners are manufactured using high quality synthetic EPDM rubber compounds. The Polygamma™ EPDM pond liners are specifically designed and manufactured for use in landscape ponds, golf courses, recreational parks, artificial lakes, fish hatcheries reservoirs, water storage bodies etc. Our pond liners are formulated to be friendly to most aquatic life#.

The Polygamma™ Pond Liners can also be used as geo-membranes and can be used as a cost effective linings system in industrial waste pits, irrigation canals to conserve water, etc. They have been manufactured to work well in conditions where they have been buried, as well as exposed for a long time.

The Polygamma™ Advantage

- P Quality** : Our products confirm to **international product standards** and the manufacturing process is certified as per ISO 9001.
- P Technology** : We use the **intermesh mixing technology and cold feed roller head technology** that ensures that our pond liners are compact and have a higher density compared to the ones manufactured using calendar technology.
- P Vulcanizing Technology** : Our products are cured using an '**Online Vulcanizing Mechanism**', which ensures that every square inch of our pond liner is evenly cured. Since we do not use steam boilers to cure the pond liners, our manufacturing process is non-polluting.
- P Economical Price** : The easy availability of manufacturing resources, and fewer overheads, helps us provide **a better price to our customers**.
- P Higher Widths** : Our products are manufactured up to a width of 15 meters with factory seam. This ensures **quick installations and fewer field overlaps**.
- P Chemical Resistance**[§] : Our products are formulated to **withstand chemical and toxic service conditions**.
- P Experience** : Our group has been manufacturing various rubber products from polymers such as Hypalon*, Butyl, EPDM, etc since the early 1960's. This rich experience and expertise is our biggest asset, and helps to **provide the world with excellent, durable and cost effective products**.

It is recommended to test our pond liner for a specific purpose/aquatic species as per the rules and regulation of local governing authorities.

* Hypalon is a registered trademark of E.I. DuPont de Nemours and Co. Inc.

§ Prior check is required.



Technical Specifications of Polygomma™ EPDM Pond Liners - Grade PL

| Physical Property | Test Method | Requirement of ASTM Standard (Type I) | Polygomma™ Result |
|---|--------------------------------|---------------------------------------|-------------------|
| Colour | - | - | Black |
| Thickness (mm) | ASTM D-412 | 1.016 | 1.0 to 1.5 |
| Tensile Strength (MPa) | ASTM D-412 | 9-Min | 9.90 |
| Elongation Ultimate (%) | ASTM D-412 | 300-Min | 450 |
| Angular Tear (kN/m) | ASTM D-624 | 26.27 Min | 37 |
| Puncture Resistance (Kg) | E 154 | 32 | 37 |
| Temperature Resistant (°C) | - | - | -40 to +160 |
| Brittleness Point Max °F (°C) | ASTM D-2137 | -49 (-45) | No Cracks |
| Ozone Resistance/166 Hrs/50 PPHM/40°C 50% Extension | ASTM D-1149 | No Cracks | No Cracks |
| Heat Aging (670 h @ 116°C) | ASTM D-573 | | |
| • Tensile Strength (MPa) | ASTM D-412 | 8.30 Min | 11.2 |
| • Elongation Ultimate (%) | ASTM D-412 | 200 Min | 295 |
| • Angular Tear (kN/m) | ASTM D-624 | 21.9 Min | 23 |
| Liner Dimensional Change at 116° for 16 Hours (%) | ASTM D-1204 | ±1 | +0.3 |
| Water Absorption at 70°C for 166 hrs (%) | ASTM D-471 | +8, -2 | +1.7 |
| Accelerated Aging Xenon ARC | ASTM G-151/G-155 | Pass | Pass |
| Factory Seam Strength (kN/m) | ASTM D-816 | Sheet Rupture or 8.8 | Sheet Rupture |
| Hardness | ASTM-2240 | - | 63 ±5°A |
| Specific Gravity | ASTM D-297 | - | 1.25 |
| Chronic Toxicity Screening (Method 1000) | EPA 600/4-89/001 ASTM E-729 | Pass | Pass |
| Water Vapour Permeability (Max) (Per Mils) | ASTM E-96 | 2 | 2 |
| Multi-Axial Elongation (%) | ASTM D-5617 | - | 100 |

- Ref D 7465 & tolerance as per UEATC: MOAT No 46.
- The above values are taken from specimens made under reproducible conditions. However they may differ somewhat on actual production/supply due to vulcanization conditions at the factory.
- As the ASTM Standards continue to revise, please refer to the latest applicable code for any update on the properties.



Polygamma™ EPDM Pond Liners Product Range

| Thickness | Width | Length |
|--------------------|--------------------------------|-----------|
| 0.80 mm (31.5 mil) | 1.2 meters, 3 meters, 6 meters | 30 meters |
| 1.00 mm (40 mil) | 1.2 meters, 3 meters, 6 meters | 30 meters |
| 1.14 mm (45 mil) | 1.2 meters, 3 meters, 6 meters | 30 meters |
| 1.20 mm (47 mil) | 1.2 meters, 3 meters, 6 meters | 30 meters |
| 1.50 mm (60 mil) | 1.2 meters, 3 meters, 6 meters | 30 meters |
| 2.00 mm (80 mil) | 1.2 meters, 3 meters, 6 meters | 30 meters |

Special sizes can be manufactured upon request.

FEATURES



UV-RESISTANT



LONG LIFE



RECYCLE



WATERPROOF



ANTI-ROOT
PENETRATION



CHEMICAL /CORROSION
RESISTANT

APPLICATIONS



RESERVOIRS



ARTIFICIAL
LAKE



FISH HATCHERIES



WATERFALLS



CANALS



INDUSTRIAL
WASTE PITS

The information indicated here is true to the best of our knowledge. However no warranty/guaranty is implied on our products as the conditions of use and the skill and quality of manpower used for installation is beyond our control.

POLYGOMMATM
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Manufactured by -

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