

POLYGOMMA[®]

for generations and beyond...

EPDM WATERPROOFING MEMBRANES
AND POND LINERS





The Polyomma Pond Liners are manufactured using high quality synthetic EPDM rubber compounds. The Polyomma 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 Polyomma 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 Polyomma 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 Polygamma EPDM Pond Liner

Physical Properties	Test Method	Requirement of ASTM D7465 (Type I)	Polygamma Values 1.14mm (45 mil)	Polygamma Values 1.52mm (60 mil)
Colour	-	-	Black	Black
Thickness (mm)	ASTM D-412	1.14/1.52	1.14	1.52
Tensile Strength (MPa)	ASTM D-412	9-Min	9.20	9.50
Puncture Resistance (N)	ASTM D-4833	133/178	135	179
Elongation Ultimate (%)	ASTM D-412	300-Min	380	360
Tensile Set (%)	ASTM D-412	10 Max	2.10	2.15
Tear Resistace (kN/m)	ASTM D-412	26.27/40.28	27.90	41.05
Brittleness Point (°C)	ASTM D-2137	-45	Pass	Pass
Ozone Resistance	ASTM D-1149	No Cracks	Pass	Pass
Heat Aging (670 h @ 116°C)	ASTM D-573			
• Tensile Strength (MPa)	ASTM D-412	8.30 Min	9.25	8.80
• Elongation Ultimate (%)	ASTM D-412	200 Min	275	217
• Tear Resistance (kN/m)	ASTM D-624	21.9/37.3- Min	22.05	38.0
Liner Dimensional Change (%)	ASTM D-1204	±1	-0.30	-0.20
Water Absorption at 70°C for 166 hrs (%)	ASTM D-471	+8, -2	+2	+3
Visual Inspection	ASTM G-151 ASTM G-155	Pass	Pass	Pass

Ref ASTM D7465 & tolerance as per UEATC: MOAT No 46-1988

The thickness tolerance shall be +15%, -10% of the thickness agreed upon, as mentioned in ASTM D7465. As the product standards continue to revise, please refer to the latest applicable code for any update on the properties.

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.

The standard width of our EPDM pond liner is 1.2 meters. For EPDM pond liners of widths above 1.2 meters, there shall be a factory seam at approximately 1.2 meters, parallel to the width of the EPDM pond liner.

The information given here in is based on tests conducted in-house laboratory and/or independent accredited laboratories. While the information is presented as true and accurate to the best of our knowledge, Polygamma assumes no responsibility or liability regarding the use of this information. The right to make periodic revisions of the specifications without prior notice is reserved. Many factors beyond our control can affect and influence the use and performance of our products at any application. Since these factors are uniquely within the users' knowledge and control, it is essential that users evaluate the product to determine its suitability for purpose. Please, ensure before using that product is suitable for the intend application. No warranty is given or implied by us as the site conditions and the skill of labour used for application is beyond our control.



Polygomma EPDM Pond Liners Product Range

Thickness	Width	Length
0.80 mm (31.5 mil)	1.2 meters, 3 meters, 6 meters, 9 meters, 12 meters, 15 meters	30 meters
1.00 mm (40 mil)	1.2 meters, 3 meters, 6 meters, 9 meters, 12 meters, 15 meters	30 meters
1.14 mm (45 mil)	1.2 meters, 3 meters, 6 meters, 9 meters, 12 meters, 15 meters	30 meters
1.20 mm (47 mil)	1.2 meters, 3 meters, 6 meters, 9 meters, 12 meters, 15 meters	30 meters
1.50 mm (60 mil)	1.2 meters, 3 meters, 6 meters, 9 meters, 12 meters, 15 meters	30 meters
2.00 mm (90 mil)	1.2 meters, 3 meters, 6 meters, 9 meters, 12 meters, 15 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.

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Manufactured by -

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