

POLYGOMMA[®]

for generations and beyond...

EPDM WATERPROOFING MEMBRANES
AND POND LINERS





EPDM membrane is the most preferred choice when it comes to choosing long lasting, hassle free waterproofing solutions. The Polygamma Waterproofing Membranes are manufactured using high grade synthetic rubber (EPDM) compounds.

Our waterproofing membranes can be applied on the roofs to protect them from water leakages and attack of chemicals and vapors. The Polygamma Waterproofing Membranes are single-ply waterproofing membranes which make the surface watertight and are resistant to ozone and UV light. The Polygamma Waterproofing Membranes are easy to install and serves as best choice for a long lasting, fit and forget, waterproofing solution for terraces, podiums, terrace gardens, basements, swimming pools etc.

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 membranes 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 membrane is evenly cured. Since we do not use steam boilers to cure the membranes, 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 6 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**.

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

§ Prior check is required.

Technical Specifications of Polygomma EPDM Waterproofing Membranes

| Physical Property | Test Method | Requirement of ASTM D6134 (Type I) | Polygomma Values 1.14 mm (45 mil) | Polygomma Values 1.52 mm (60 mil) |
|---|-------------|------------------------------------|-----------------------------------|-----------------------------------|
| Colour | - | - | Black | Black |
| Thickness (mm) | ASTM D-412 | 1.37 | 1.14 | 1.52 |
| Hardness (Shore A) | ASTM D-2240 | 60±10 | 67 | 67 |
| Tensile Strength (MPa) | ASTM D-412 | 9-Min | 9.2 | 9.5 |
| Elongation Ultimate (%) | ASTM D-412 | 300-Min | 380 | 360 |
| Tensile Set (%) | ASTM D-412 | 10 Max | 2.1 | 2.15 |
| Tear Resistance (kN/m) | ASTM D-624 | 26.27 Min | 27.90 | 27.50 |
| Brittleness Temperature (°C) | ASTM D-746 | -45 | Pass | Pass |
| Heat Aging (166h @ 116°C) | ASTM D-573 | | | |
| • Tensile Strength (MPa) | ASTM D-412 | 8.30 Min | 9.25 | 8.80 |
| • Elongation Ultimate (%) | ASTM D-412 | 210 Min | 275 | 217 |
| • Linear Dimensional Change (%) | ASTM D-1204 | ±1 | -0.30 | -0.20 |
| Water Absorption at 70° for 166 hours (%) | ASTM D-471 | 4 Max | +2.0 | +3.0 |
| Factory Seam Strength (Mpa) | ASTM D-816 | 8.8 | Sheet Failure | Sheet Failure |
| Water Vapour Premeance (mg/pasm2) | ASTM E-96 | 3.50 Max | 3.0 | 3.0 |
| Puncture Resistance (Kg) | ASTM E-154 | 32 | 35 | 38 |

- Ref D 4637/D 6134 & 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.
- For widths above 1.2 meters, there shall be a factory vulcanized seam (joint) at every 1.2 meters parallel to the width..



Polygomma EPDM Waterproofing Membrane 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



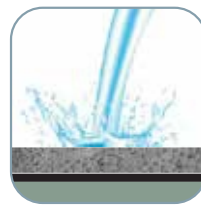
UV-RESISTANT



LONG LIFE



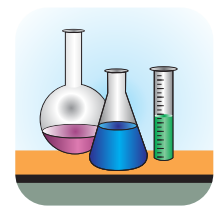
RECYCLE



WATERPROOF



ANTI-ROOT
PENETRATION

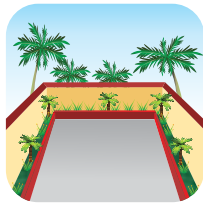


CHEMICAL /CORROSION
RESISTANT

APPLICATIONS



ROOFING



TERRACE GARDEN/
PODIUM

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 -

POLYGOMMA INDUSTRIES PVT. LTD.

Office : A-229, Antophill Warehousing Complex,
 Vidyalankar College Road, Wadala(E),
 Mumbai- 400037, India.

Tel : +91 22 40655333 **Fax :** +91 22 24162885.

E-mail : polygomma@polygomma.com

Web : www.polygomma.com