

# Technical Data Sheet

## Polygomma EPDM Pond Liner

### Description

Polygomma EPDM Pond Liner (Grade PL) is a non-reinforced cured single-ply EPDM liner.

### Preparation of Substrates

The substrate should be free from any objects that would damage the EPDM pond liner. If required, consider laying a 250-300 GSM geotextile on the soil before laying the EPDM liners.

### Suggested Application Procedure

- Compact the soil to the tune of 85%-95% (Standard Proctor). Make sure all debris that could damage the EPDM liner are removed.
- Lay a 250-300 GSM geotextile. Maintain an overlap of minimum 50 mm for the geotextile,
- Lay the EPDM pond liner. The overlaps of the EPDM pond liner are done with either the seam tapes or the bonding adhesive.
- As a general thumb rule, the anchoring (for termination) is set-up approximately 1 meter back from the top of the slope. The anchor trench is generally 0.5-meter-wide and 1 meter deep.

Please contact the manufacturer for detailed application procedure. This is a general application procedure. It may have to be modified to adapt to site conditions/requirements and as required by the contractor/consultants.

### Storage

The EPDM pond liner should be stored in clean and covered surroundings and it should be stored in a way that there is no physical damage to the liner during storage.

### Precautions

1. Take care when moving, transporting, handling, etc. to avoid punctures and physical damage. Always life and shift.
2. Isolate waste products, such as petroleum products, greases, oils (mineral and vegetable) and animal fats from the EPDM pond liner.
3. Refer to Material Safety Data Sheets (MSDS) for safety information.

## Technical Specifications

### Technical Specifications of Polygomma EPDM Pond Liner-Grade PL

Physical Property	Test Method	Requirement of ASTM D 7465 (Type I)	Polygomma Values 1.14/1.2 mm	Polygomma Values 1.5 mm
<b>Colour</b>	-	-	Black	Black
<b>Thickness (mm)</b>	ASTM D-412	1.016	1.1	1.50
<b>Tensile Strength (MPa)</b>	ASTM D-412	9-Min	9.5	9.2
<b>Elongation Ultimate (%)</b>	ASTM D-412	300-Min	400	350
<b>Angular Tear (kN/m)</b>	ASTM D-624	26.27 Min	28	27.25
<b>Tensile Set (%)</b>	ASTM D-412	10 Max	7	2
<b>Brittleness Point Max °F (°C)</b>	ASTM D-2137	-49 (-45)	No Cracks	No Cracks
<b>Ozone Resistance</b>	ASTM D-1149	No Cracks	No Cracks (Pass)	No cracks (Pass)
<b>Heat Aging (670h @ 116°C)</b>	ASTM D-573			
➤ <b>Tensile Strength MPa</b>	ASTM D-412	8.30 Min	9.25	8.8
➤ <b>Elongation Ultimate (%)</b>	ASTM D-412	200 Min	275	217
➤ <b>Angular Tear (kN/m)</b>	ASTM D-624	21.9-Min	23.90	22.60
<b>Linear Dimensional Change (%)</b>	ASTM D-1204	±1	-0.45	-0.33
<b>Water Absorption at 70° for 166 hours (%)</b>	ASTM D-471	+8,-2	+1.7	+1.6
<b>Factory Seam Strength (kN/m)</b>	ASTM D-816	8.8	Sheet Failure	Sheet Failure
<b>Visual Inspection</b>	ASTM G-151 ASTM G-155	Pass	Pass	Pass

Ref ASTM D 6134 & tolerance as per UEATC: MOAT No 46-1988

The thickness tolerance shall be +15%, -10% of the thickness agreed upon, as mentioned in ASTM D-7465. 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 membrane is 1.2 meters. For EPDM membrane of widths above 1.2 meters, there shall be a factory seam at 1.2 meters, parallel to the width of the EPDM membrane.

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, Polygomma 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.

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