

# Technical Data Sheet

## Polygomma EPDM Membrane

### Description

Polygomma EPDM Membrane (Grade RM) is a non-reinforced cured single-ply EPDM waterproofing/roofing membrane.

### Preparation of Substrates

- Substrates must be clean dry and free of all contaminants. It is important that all loose & material materials, sharp edges, oil, grease, etc must be removed.
- All civil defects such as cracks, undulation, etc must be removed. The surface must be fit to receive waterproofing/roofing treatment.
- All surface voids greater than 1/4" wide shall be repaired appropriately.

### Suggested Application Procedure

The Polygomma EPDM membrane is applied using the Polygomma Bonding Adhesive. An overlap of minimum 40 mm is recommended for roofing, waterproofing and tanking applications.

- Clean the surface thoroughly to remove any dirt, etc. Ensure that the surface to be bonded is clean and dry.
- Apply the Polygomma BA on both the surfaces evenly and allow it to dry for 5-10 minutes.
- Join both the surfaces and press well to get a strong and perfect bond.
- It is recommended (if possible) to keep some weight on the bonded surface to get best results.
- Please note that the maximum bond strength will occur after 24-48 hours, once the Polygomma BA is completely cured. The time taken depends on the porosity of the surface, ambient temperature, etc.
- The overlaps of the EPDM membrane can be either done with bonding adhesives or with seam tapes.

Please contact the manufacturer for detailed application procedure.

In case of a loosely laid system, the overlaps can be seamed using the Polygomma bonding adhesive or Polygomma seam tapes.

Apart from the above suggest procedure, the application procedure should be changed, keeping in mind the site conditions/requirements.

### Storage

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

### Precautions

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

## Technical Specifications

### Technical Specifications of Polygomma EPDM Waterproofing Membrane-Grade RM

Physical Property	Test Method	Requirement of ASTM D 6134 (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-6134. 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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