

## Specification of Polygomma EPDM Membrane

Physical Property	Test Method	Requirement of ASTM D6134 (Type I)	Polygomma Values 1.14 mm (45 mil)	Polygomma Values 1.52 mm (60 mil)
<b>Colour</b>	-	-	Black	Black
<b>Thickness (mm)</b>	ASTM D-412	1.37	1.14	1.52
<b>Hardness (Shore A)</b>	ASTM D-2240	60±10	67	67
<b>Tensile Strength (MPa)</b>	ASTM D-412	9-Min	9.2	9.5
<b>Elongation Ultimate (%)</b>	ASTM D-412	300-Min	380	360
<b>Tensile Set (%)</b>	ASTM D-412	10 Max	2.1	2.15
<b>Tear Resistance (kN/m)</b>	ASTM D-624	26.27 Min	27.90	27.50
<b>Brittleness Temperature (°C)</b>	ASTM D-746	-45	Pass	Pass
<b>Heat Aging (166h @ 116°C)</b>	ASTM D-573			
➤ <b>Tensile Strength (MPa)</b>	ASTM D-412	8.30 Min	9.25	8.80
➤ <b>Elongation Ultimate (%)</b>	ASTM D-412	210 Min	275	217
➤ <b>Linear Dimensional Change (%)</b>	ASTM D-1204	±1	-0.30	-0.20
<b>Water Absorption at 70°C for 166 hours (%)</b>	ASTM D-471	4 Max	+2.0	+3.0
<b>Factory Seam Strength (MPa)</b>	ASTM D-816	8.8	Sheet Failure	Sheet Failure
<b>Water Vapour Permeance (mg/pasm<sup>2</sup>)</b>	ASTM E-96	3.50 Max	3.0	3.0
<b>Puncture Resistance (Kg)</b>	ASTM E-154	32	35	38

Ref ASTM D6134 & tolerance as per UEATC: MOAT No 46-1988

The thickness tolerance shall be +15%, -10% of the thickness agreed upon, as mentioned in ASTM D6134. 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 vulcanized seam at approximately 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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**CIN:** U25203MH2012PTC227401 **PAN:** AAGCP4636G **GST:** 27AAGCP4636G1ZB