

Technical Specification of Polygomma EPDM Pond Liner

Physical Property	Test Method	Requirement of ASTM D7465 (Type I)	Polygomma Values 1.14 mm (45 mil)	Polygomma Values 1.52 mm (60 mil)
Colour	-	-	Black	Black
Thickness (mm)	ASTM D-412	1.14/1.52	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 Resistance (kN/m)	ASTM D-624	26.27 Min	27.90	27.90
Brittleness Point Max (°C)	ASTM D-2137	-45	Pass	Pass
Ozone Resistance	ASTM D-1149	No Cracks	Pass	Pass
Heat Aging (670h @ 116°C)	ASTM D-573			
➤ Tensile Strength (MPa)	ASTM D-412	8.30 Min	8.40	8.35
➤ Elongation Ultimate (%)	ASTM D-412	200 Min	275	217
➤ Tear Resistance (kN/m)	ASTM D-624	21.9 Min	22.05	22.10
Linear Dimensional Change (%)	ASTM D-1204	±1	-0.30	-0.20
Water Absorption at 70°C for 166 hours (%)	ASTM D-471	+4 Max	+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, 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.

POLYGOMMA INDUSTRIES PVT LTD

Office: A229, Antophill Warehousing Complex, Vidyalankar College Road, Wadala East, Mumbai-400037. India.
Tel: +91 22 40655333 **Fax:** +91 22 4162885 **email:** polygomma@polygomma.com **Web:** www.polygomma.com
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