

EPDM LINING MEMBRANE

Technorubber EPDM lining membrane is single-ply synthetic rubber membrane made of ethylene propylene diene monomer (EPDM). It is conveyed to the calendar extruder into large sheets and vulcanized. This EPDM membrane is available in panel sizes up to 12.2 m wide x 61.0 m long, resulting in fewer field seams and a shorter installation time.



FEATURES

Superior Quality Of Technorubber EPDM

Durability: robust membrane, dimensionally stable enabling to withstand severe weather conditions encountered in our regions. EPDM is a fully cured membrane that mainly contains EPDM polymer and carbon black, offering unmatched resistance to ozone and UV radiation. This membrane has no plasticizer resulting in a stable and inert membrane. It offers an extremely durable lining solution. Technorubber EPDM remains flexible even at very low temperature (-45°C) and can elongate over 300% to accommodate movement of the support and temperature fluctuations.

EPDM is Very Flexible

Technorubber EPDM can be easily installed on each type of support. It adjusts even to complex shape of ponds and water feature creating an aesthetic result.

A Perfect Combination

This membrane is designed to save installation time without compromising in any way. A high-quality and durable lining system. The Technorubber EPDM offers such a unique combination of features and long-term benefits for all your water features: decorative ponds, swimming ponds, artificial lakes, agricultural reservoirs, canals etc...

Installation Speed

Large EPDM seamless sheets enable prompt installation without any power supply.

Even Faster With Seam Tape

Field splicing are made with a Primer and a self-adhesive tape. It tremendously improves speed, reliability and consistency of the seams.

A Green Choice

Technorubber EPDM is an inert material with limited environmental impact during manufacturing, installation and use. No toxic substances are released from the membrane, allowing collection and use of run-off rainwater. These ecological benefits, in combination with the membrane's life expectancy of up to 50 years, make Technorubber EPDM an environmentally friendly waterproofing solution.

Combined With Quality Manufacturing

Technorubber operates plants with state of the art equipment. The EPDM plants in Dammam, KSA have achieved ISO 9001:2015 which is a testimony to the company's commitment to quality management systems. The Technorubber EPDM membranes is in accordance with ASTM D 7465- Type I. This certifies that these products and associated production methods are meeting today's requirements in terms of mechanical resistance and stability, safety in case of fire, hygiene, health and environmental protection, safety in use, protection against noise, energy economy and heat retention, aspects of durability, serviceability and identification.

TECHNICAL SPECIFICATIONS

NO.	Property	Unit	Testing Standard	Specifications
01	Thickness Sheet - Overall	mm	ASTMD 412	-10% , +15%
02	Tensile Strength (min)	MPa	ASTM D 412 Die C	9.0
03	Puncture Resistance (min)	N	ASTM D 4833	133
04	Elongation, Ultimate (min)	%	ASTM D 412 Die C	300
05	Tensile Set (max)	%	ASTM D 412 Die C	10
06	Tear Resistance (min)	kN/m	ASTM D 624 Die C	26.27
07	Brittleness Point (max)	° C	ASTM D 2137	-45
08	Ozone Resistance (no cracks)	-	ASTM D 1149	Pass
09	Heat Aging @ 116 ± 2 °C for 670 ± 6.7 h	-	ASTM D 573	-
a	Tensile Strength (min)	MPa	ASTM D 412 Die C	8.3
b	Elongation Ultimate (min)	%	ASTM D 412 Die C	200
c	Tear Resistance (min)	kN/m	ASTM D 624 Die C	21.9
d	Linear Dimensional Change,(max)	%	ASTM D 1204	±1
10	Water Absorption, mass (max)	%	ASTM D 471	+8, -2
11	Weather Resistance	-	ASTM G 151/155	-
a	Visual Inspection	-	ASTM D 518	No cracks or crazing
b	PRFSE (min)	%	ASTM D 7465	30
c	Elongation, Ultimate (min)	%	ASTM D 412 Die C	200

Technical Specification: ASTM D 7465-Type I (Standard Specification for Ethylene Propylene Diene Terpolymer (EPDM) Sheet Used In Geomembrane Applications)

PRODUCT RANGE

NO.	Length	Width	Thickness
01	30.5m to 61.0m	3.05 to 12.20m	1.04, 1.14 & 1.52mm

WAREHOUSING AND INSTALLATION RECOMMENDATIONS

Preparation

Substrate needs to be compacted, clean, smooth, dry and free of sharp edges. A protective geotextile will systematically be installed between the substrate and the membrane.

Application

Allow the membrane to relax for minimum 30 minutes before splicing. Install EPDM membrane in accordance with current specifications and details. Contact with any kind of oils, petroleum products, hot bitumen and grease must be avoided.

Storage

Store the membrane away from sources of punctures and physical damage.