

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 EN 13361 & EN 13362. 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	Length	m	EN 1848-2	-0% ,+5%
02	Width	m	EN 1848-2	-0.5% ,+1%
03	Effective Thickness	mm	EN 1849-2	-5%,+10%
04	Mass per unit area	Kg/m ²	EN 1849-2	-5% ,+10%
05	Tensile Strength	N/mm ²	EN 12311-2	≥ 8.0
06	Elongation at Break	%	EN 12311-2	≥300
07	Tear Resistance	N	ISO 34-1	≥ 20
08	Resistance to Static Puncture	KN	EN 12236	≥0.50
09	Water Permeability (Liquid tightness)	m ³ /m ² /d	EN 14150	4.0± 10 ⁻⁶
10	Foldability at Low Temp	°C	EN 495-5	≤ -45
11	Durability - Weathering (3000 hrs.)	-	EN 12224	Pass
12	Oxidation	-	EN 14575	Pass

Technical Specification: EN 13361 (Standard Specification for Ethylene Propylene Diene Terpolymer (EPDM) Sheet Used In Geomembrane Applications)

EN 13362 (Geosynthetic barriers - Characteristics required for use in the construction of canals)

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 RECOMMANDATIONS

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.