

# EPDM REINFORCED MEMBRANE

Technorubber EPDM roofing membrane is singleply synthetic rubber membrane made of ethylene propylene diene monomer (EPDM). It is conveyed to the calender extruder into large sheets and vulcanized. This EPDM membrane is available in panel sizes up to 3.05 m wide x 30.5 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 roofing solution. Technorubber EPDM remains flexible even at very low temperature (-45°C).

### Puncture Resistance

Reinforced membranes are internally reinforced to provide excellent resistance to punctures, tears & scratches caused by any traffic on the roof.

### Even Faster With The 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 Perfect Combination

This membrane is designed to save installation time without compromising in any way. A high-quality and durable roofing system. The Technorubber EPDM roofing membrane offers such a unique combination of features and long-term benefits.

### Technorubber Roofing Systems

We can propose an EPDM rubber roofing system and accessories for all kind of roofing systems: Fully Adhered, Ballasted or Mechanically Attached Systems. All this for both reroofing and/or new construction projects.

### 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 roofing 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. Technorubber EPDM membranes is in accordance with ASTM D4637-Type-II. 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	ASTM D751	-10% , +15%
02	Coating Over Scrim or Fabric (min)	mm	ASTM D7635	0.38
03	Breaking Strength (min)	N	ASTM D751, Grab Method	400
04	Dynamic Puncture Resistance @ 10J	-	ASTM D5635	Pass
05	Static Puncture Resistance @ 25Kg	-	ASTM D5602	Pass
06	Elongation, Ultimate (min)	%	ASTM D412, Die C	250*
07	Elongation @Fabric Break, Ultimate (min)	%	ASTM D751, Grab Method	15
08	Tearing Strength (min)	N	ASTM D751, B – Tongue Tear	45
09	Brittleness Temperature (max)	°C	ASTM D2137	-45
10	Ozone Resistance (no cracks)	-	ASTM D1149	Pass
11	Heat Aging @ 116±2 °C for 670 ± 6.7h	-	ASTM D573	
a	Breaking Strength (min)	N	ASTM D751 Grab Method	356
b	Elongation, Ultimate (min)	%	ASTM D412, Die C	200*
c	Linear Dimensional Change (max)	%	ASTM D1204	±1
12	Water Absorption, mass (max)	%	ASTM D471	+8 , -2*
13	Factory Seam Strength (min)	kN/m	ASTM D816, Method B	8.8 or Failure
14	Weathering Resistance	-	ASTM G151,G155	
a	Visual Inspection	-	ASTM D518	No cracks or crazing

\*Specimens to be prepared from coating rubber compound, vulcanized in a similar method to the reinforced products. Technical Specification: ASTM D4637-Type II (Flexible sheets for waterproofing—rubber sheets for roof waterproofing – Definitions and characteristics)

## PRODUCT RANGE

NO.	Length	Width	Thickness
01	Up to 30.5m	1.5 – 3.05m	1.52 & 2.30mm

## WAREHOUSING AND INSTALLATION RECOMMENDATIONS

### Preparation

Allow the EPDM membrane to relax for approximately 30 minutes before installation.

### Application

Install EPDM membrane in accordance with the current specifications and details. Contact with oils, petroleum, bitumen & grease must be avoided.

### Substrate

Roofing structure needs to be stable enough to support the temporary loading. Substrate needs to be clean, smooth, dry and free of sharp edges.

### Storage

Store EPDM membrane in hot dry place until use.