



## Firestone EPDM Geomembrane (Platinum)

### Firestone Item Number:

**W56GM91010:** 3.05 m (10.0') x 30.48 m (100.0')  
2.28 mm (0.090")

### DESCRIPTION:

Firestone EPDM Geomembrane Platinum is a 2.28 mm (0.090") synthetic rubber geomembrane designed for long-term waterproofing performance.

### PREPARATION OF SUBSTRATES:

1. Substrates must be clean, dry, smooth, and free of sharp edges, fines, loose or foreign materials, oil, grease, and other materials that may damage the geomembrane.
2. All roughened surfaces that can damage the geomembrane shall be repaired as specified to offer a smooth substrate.
3. All substrates voids greater than 6.3 mm (0.25") wide shall be properly filled with an acceptable fill material.

### METHOD OF APPLICATION:

Firestone EPDM Geomembrane Platinum must be installed in accordance with current Firestone Specialty Products specifications and details.

### STORAGE:

1. Store away from sources of punctures, and physical damage.
2. Store away from ignition sources as geomembrane will burn when exposed to open flame.

This sheet is meant only to highlight Firestone's products and specifications. Information is subject to change without notice. Firestone takes responsibility for furnishing quality materials, which meet Firestone's published product specification. As neither Firestone itself nor its representatives practice design, Firestone offers no opinion on and expressly disclaims any responsibility for the soundness of any project on which its products may be applied. If questions arise as to the soundness of a project, or its ability to support a planned installation properly, the Owner should obtain opinions of competent design engineers before proceeding. Firestone accepts no liability for any failure or for resultant damages, and no Firestone Representative is authorized to vary this disclaimer.



## PRODUCT DATA

### PACKAGING:

Thickness	Widths	Lengths	Weight
2.28 mm (0.090")	3.05 m (10.0')	15.24 m (50.0')*	2.7 kg/m <sup>2</sup> (0.56 lb/ft <sup>2</sup> )
2.28 mm (0.090")	3.05 m (10.0')	30.48 m (100.0')	2.7 kg/m <sup>2</sup> (0.56 lb/ft <sup>2</sup> )

\*Packaged 2 panels per roll.

### PRECAUTIONARY DATA:

1. Take care when moving, transporting, handling, etc. to avoid sources of punctures and physical damage.
2. Isolate waste products, such as petroleum products, greases, oils (mineral and vegetable) and animal fats from the geomembrane. Contact Firestone Specialty Products for specific recommendations.
3. Refer to Material Safety Data Sheets (MSDS) for safety information.

### LEED INFORMATION:

Post Consumer Recycled Content: 0%  
Post Industrial Recycled Content: 0%  
Manufacturing Location: Prescott, AR

### Firestone Specialty Products

250 West 96th Street, Indianapolis, Indiana 46260  
Specialty Products (800) 428-4442  
Internet Address: <http://www.firestonesp.com>

# Firestone EPDM Geomembrane (Platinum)

## PHYSICAL PROPERTIES

<u>Property</u>	<u>Test Method</u>	<u>Minimum ASTM Performance</u>	<u>Typical Values</u>
Tensile Strength	ASTM D-412 (Die C)	9.0 MPa (1305 psi)	9.8 MPa (1425 psi)
Factory Seam Strength	ASTM D-816 (Modified)	9 kN/m (51 lbf/in) or Sheet Failure	Sheet Failure
Elongation	ASTM D-412 (Die C)	300%	450%
Puncture Resistance	ASTM D-120	NA	.085 kN (19.2 lbf)
Tear Resistance	ASTM D-624 (Die C)	26.3 kN/m (150 lbf/in)	35.0 kN/m (200 lbf/in)
Shore A Durometer	ASTM D-2240	65 +/- 10	62
Ozone Resistance- 7 days/100 pphm @ 37.8° C (100° F) with 50% extension	ASTM D-1149	No Cracks	No Cracks
Heating Aging- 28 days @ 116° C (240° F)	ASTM D-573		
Tensile Strength	ASTM D-412 (Die C)	8.3 MPa (1205 psi)	9.7 MPa (1415 psi)
Elongation	ASTM D-412 (Die C)	200%	290%
Tear Resistance	ASTM D-624 (Die C)	21.9 kN/m (125 lbf/in)	31.5 kN/m (180 lbf/in)
Linear Dimensional Change, max, %	ASTM D-1204	+/- 1.0	<1.0
Brittleness Temp.	ASTM D-746	-45° C (-49° F)	-53° C (-63° F)
Water Resistance Change in Weight After Immersion 7 Days @ 65.6° C (150° F), %	ASTM D-471	+8, -2	+1.73
Water Vapor Permeability, max., Perm mils	ASTM E-96	2.0	1.93
Tolerance on Nominal Thickness, %	ASTM D-412	+/- 10	+/- 10

**Notes: Firestone EPDM Geomembrane Platinum production materials are special order items requiring a minimum of two weeks as production lead-time**

**Firestone EPDM Geomembrane Platinum meets or exceeds the minimum requirements set forth by ASTM D-4637 for Type I non-reinforced EPDM single-ply membranes.**