

PondGard EPDM Geomembrane (Black)

**Firestone Item Number:****Various:** [Click for Item Numbers](#)**DESCRIPTION:**

Firestone PondGard EPDM Geomembrane is a cured single-ply geomembrane.

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 substrate voids greater than ¼" (6.3 mm) wide shall be properly filled with an acceptable fill material.

METHOD OF APPLICATION:

PondGard EPDM Geomembrane 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.

PRODUCT DATA**PACKAGING:**

<u>Thickness</u>	<u>Weight</u>
.045" (1.1 mm)	0.29 lb/ft ² (1.4 kg/m ²)
.060" (1.5 mm)	0.40 lb/ft ² (1.9 kg/m ²)

See attached page for available length and width options.

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 PondGard 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 Locations:	Prescott, AR Kingstree, SC

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Firestone Specialty Products
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Specialty Products (800) 428-4442
Internet Address: <http://www.firestonesp.com>

Last Updated: 12/18/2006

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PHYSICAL PROPERTIES

Property	Test Method	Units	Minimum ASTM Performance			
			45 mil		60 mil	
			SI	Eng	SI	Eng
Specific Gravity	ASTM D-792	gm/cc	1.1	1.1	1.1	1.1
Unit Weight	ASTM D-751	kg/m ² (lb/ft ²)	1.3	.28	1.8	.40
Thickness (min. ave.) *Lowest individual of 10 values	ASTM D-5199	mm (in)	1.14 -10%	.045 -10%	1.52 -10%	.060 -10%
Tensile Properties						
Break Strength	ASTM D-882	kN/m (lb/in)	8.8	50	11.4	65
Break Elongation	ASTM D-882	%	500	500	500	500
Tear Resistance	ASTM D-1004	N (lbs)	40	9	50	12
Puncture Resistance	ASTM D-4833	N (lbs)	150	35	190	45
Shore A Durometer	ASTM D-2240		65-10	65-10	65-10	65-10
Resistance to Ozone 7 days/100 @ 37.8° C (150° F) 50% ext.	ASTM D-1149		No Cracks	No Cracks	No Cracks	No Cracks
Multiaxial Elongation	ASTM D-5617	%	100	100	100	100
Oven Aging At 100° C (212° F) for 170 hours	ASTM D-882					
% retained on tensile break strength			90	90	90	90
% retained on tensile break elongation			75	75	75	75
UV Resistance						
Xenon Arc for 2000 hours at 80°C (176°F)	ASTM G-155					
% retained on tensile break strength			90	90	90	90
% retained on tensile break elongation			75	75	75	75
Brittleness Temperature	ASTM D-746		-45°C	-49°F	-45°C	-49°F
Water Resistance weight after immersion 7 days @ 65° C (170° F)	ASTM D-471	%	+8,-2	+8,-2	+8,-2	+8,-2
Water Vapor Permeability (max.)	ASTM E-96	Perm mils	2.0	2.0	2.0	2.0
Dimensional Stability	ASTM D-1204	%	0.75	0.75	0.75	0.75
Chronic Toxicity Screening	EPA/600/4-89/ 001 ASTM E-729	Method 1000.0	passes passes	passes passes	passes passes	passes passes

Notes: Certified PondGard production materials are special order items requiring a minimum of two weeks as production lead-time

PondGard geomembrane meets or exceeds the minimum requirements set forth by ASTM D-4637 for Type II scrim-reinforced EPDM single-ply membranes.

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