



## PondGard Non-Reinforced EPDM Geomembrane (Black)

### DESCRIPTION:

Firestone PondGard non-reinforced EPDM Geomembrane is a cured single-ply pond lining geomembrane.

### PREPARATION OF SUBSTRATES:

1. Substrates must be clean, dry, smooth, and free of sharp edges, fins, 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 surface voids greater than 1/4" (6.3 mm) wide shall be properly filled with an acceptable fill material.

### METHOD OF APPLICATION:

1. PondGard non-reinforced EPDM Geomembrane must be installed in accordance with current PondGard specifications, details and workmanship requirements.

### STORAGE:

1. Store away from sources of punctures, and physical damage.
2. Assure that structural decking will support the loads incurred by material when stored on rooftop. The deck load limitations should be specified by the project designer.
3. Store away from ignition sources as geomembrane will burn when exposed to open flame.

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## PRODUCT DATA

### PACKAGING:

Thickness	Widths	Lengths	Weight
.045" (1.1 mm)	7.5 ft* (2.3 m*)	50 ft (15.2 m)	0.29 lb/sf (1.4 kg/m <sup>2</sup> )
	9 ft** (2.7 m**)	100 ft (30.5 m)	
	10 ft (3 m)	200 ft (61 m)	
	20 ft (6.1 m)		
	25 ft (7.6 m)		
.060" (1.5 mm)	7.5 ft* (2.3 m*)	50 ft (15.2 m)	0.40 lb (1.9 kg/m <sup>2</sup> )
	9 ft** (2.7 m**)	100 ft (30.5 m)	
	10 ft (3 m)		
	20 ft (6.1 m)		
	25 ft (7.6 m)		

\*Packaged 2 panels per roll.

\*\*Available in 100' (30.5 m) rolls only.

### 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 Department 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

### Firestone Building Products Company

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### PHYSICAL PROPERTIES

Property	Test Method	Units	Minimum ASTM Performance			
			45 mil		60 mil	
			SI	Eng	SI	Eng
Specific Gravity	ASTM D792	gm/cc	1.1	1.1	1.1	1.1
Unit Weight	ASTM D751	kg/m <sup>2</sup> (lb/ft <sup>2</sup> )	1.3	.28	1.8	.40
Thickness (min. ave.) <small>*Lowest individual of 10 values</small>	ASTM D5199	mm (in)	1.14 -10%	.045 -10%	1.52 -10%	.060 -10%
<b>Tensile Properties</b>						
Break Strength	ASTM D882	kN/m (lb/in)	8.8	50	11.4	65
Break Elongation	ASTM D882	%	500	500	500	500
Tear Resistance	ASTM D1004	N (lbs)	40	9	50	12
Puncture Resistance	ASTM D4833	N (lbs)	150	35	190	45
Shore A Durometer	ASTM D2240		65-10	65-10	65-10	65-10
Resistance to Ozone 7 days/100@37.8°(150°) 50% ext.	ASTM D1149		No Cracks	No Cracks	No Cracks	No Cracks
Multiaxial Elongation	ASTM D5617	%	100	100	100	100
Oven Aging at 100°C (212°) for 170 hours	ASTM D882					
•% retained on tensile break strength			90	90	90	90
•% retained on tensile break elongation			75	75	75	75
<b>UV Resistance</b>						
Xenon Arc for 2000 hours at 80°C (176°F)	ASTM G155					
•% retained on tensile break strength			90	90	90	90
•% retained on tensile break elongation			75	75	75	75
Brittleness Temperature	ASTM D746		-45°C	-49°F	-45°C	-49°F
Water Resistance weight after immersion 7 days @ 65°C (170°F)	ASTM D471	%	+8,-2	+8,-2	+8,-2	+8,-2
Water Vapor Permeability (max.)	ASTM E96	Perm mils	2.0	2.0	2.0	2.0
Dimensional Stability	ASTM D1204	%	0.75	0.75	0.75	0.75
Chronic Toxicity Screening	EPA/600/4-89/ 001 ASTM E729	Method 1000.0	passes passes	passes passes	passes passes	passes passes
Certified PondGard production materials are special order items requiring a minimum of two weeks as production lead-time						
<b>Seaming Minimum Values (after 24 hours cure time) for 6" cover strip and 3" double-face tape systems</b>						
Shear	ASTM D4437 Modified 508mm per minute 20 in per minute	kN/m (lb/in)	6.1	35		
Peel	ASTM D4437 Modified 508mm per minute 20 in per minute	kN/m (lb/in) <small>*Cohesive bond mode/ FTB tape</small>	2.4*	14*		