

TECHNICAL INFORMATION SHEET

FSP-101
11/18/2011



Firestone PondGard™ Rubber Liners

Firestone Item Number:
Various: See Attached Page

DESCRIPTION:

Firestone PondGard Rubber Liners are a cured single-ply membrane made from an EPDM polymer formulated to be fish and plant friendly.

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 6.3 mm (0.25") wide shall be properly filled with an acceptable fill material.

METHOD OF APPLICATION:

Firestone PondGard Rubber Liners are to 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 the liner will burn when exposed to open flame.



PRODUCT DATA

PACKAGING:

<u>Thickness</u>	<u>Weight</u>
1.14 m (0.045")	1.42kg/m ² (0.29 lb/ft 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 liner. 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

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PHYSICAL PROPERTIES

Property	Test method	Units	Minimum Values	
			SI	Eng
Specific Gravity	ASTM D-792	gm/cc	1.2	1.2
Unit Weight	ASTM D-751	kg/m (lb/ft)	1.4	.29
Thickness, Type 1	ASTM D-412	mm (in)	1.14 +10/-20%	.045 +10/-20%
Tensile Strength, Die C	ASTM D-412	MPa (psi)	9.0	1305
Ultimate Elongation, Die C	ASTM D-412	%	300	300
Tear Resistance, Die C	ASTM D-624	kN/m (lbf/in)	26.27	150
Puncture Resistance	ASTM D-4833	N (lbs)	110.8	25
Shore A Durometer	ASTM D-2240		65-10	65-10
Resistance to Ozone 7 days/100 @ 37.8° C (150° F) 50% ext.	ASTM D-1149		No Cracks	No Cracks
Multiaxial Elongation	ASTM D-5617	%	100	100
Oven Aging At 116° C (240° F) for 670 hours	ASTM D-573			
Tensile strength Die C	ASTM D-412	MPa (psi)	8.3	1205
Ultimate elongation, Die C	ASTM D-412	%	200	200
Tear Resistance, Die C	ASTM D-624	kN/m (lbf/in)	21.9	125
Xenon Arc for 5040 kJ/(m ² .nm) @ 340 nm @ 80°C	ASTM G-155/G-151			
Visual Inspection- 7X No cracks or crazing bent loop @10% strain	ASTM D-518		Pass	Pass
Brittleness Point	ASTM D-2137		-45 C	-49 F
Water Resistance weight after immersion 166 hrs @ 70° C (158° F)	ASTM D-471	%	+8,-2	+8,-2
Water Vapor Permeability (max.)	ASTM E-96	Perm-mils	2.0	2.0
Linear Dimensional Change,max	ASTM D-1204	%	+/- 1.0	+/- 1.0
Chronic Toxicity Screening	EPA/600/4-89/ 001 ASTM E-729	Method 1000.0	passes passes	passes passes