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Product Specification Sheet

**Firestone PondGard EDPM Rubber Liners**

**Synthetic rubber geomembrane liner for water containment applications.**

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	10.1
Thickness, Type 1	ASTM D-412	mm (in)	1.14 +10/-20%	0.45 +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 <sup>2</sup> .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		-450C	-490F
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	Method	passes	passes
	ASTM E-729	1000.0	passes	passes

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