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## EPDM - ETHYLENE PROPYLENE DIENE MONOMER

EPDM is a unique and popular choice for a wide variety of jobs due to its outstanding flexibility, ease of installation, and UV stability. EPDM is becoming a widely used and accepted liner in all geomembrane markets.

Colorado Lining International can supply you with material or facilitate a full installation with one of our certified installation crews. We want to work with you to make your job a success.

### Product Features:

- Excellent Chemical Resistance
- Durable
- Cost Effective
- Very Flexible
- Excellent UV Rating
- User Friendly
- Easily Repaired By Owner
- Reinforced EPDM Available
- Available In 45, 60, & 90 Mils

### Uses & Applications:

- Golf Course Ponds
- Pond & Lake Liners
- Aquaculture
- Canal Liners
- Water Features
- Fish Hatcheries
- Residential Applications

- *Project Photo: Lost Hills Canal Lining*
- *Location: Lost Hills, CA*
- *1,036,000 Square Feet 45 Mil EPDM*





# EPDM

## Product Data Sheet

### PHYSICAL PROPERTIES

## 1.14 mm (0.045") EPDM Geomembrane

Property	Test method	Units	ASTM D-7465	
			SI	Eng
			<b>1.14 mm (0.045")</b>	
			<b>SI</b>	<b>Eng</b>
Specific Gravity	ASTM D-792	gm/cc	1.1	1.1
Unit Weight	ASTM D-751	kg/m (lb/ft)	1.4	.29
Thickness, Type 1	ASTM D-412	mm (in)	1.02 +10/-10%	.045 +10- 10%
Tensile Strength, Die C min	ASTM D-412	MPa (psi)	9.0	1305
Ultimate Elongation, Die C min	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)	133	30
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 ASTM D-518			Pass	Pass
No cracks or crazing bent loop @10% strain				
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

EPDM Geomembrane meets or exceeds the minimum requirements set forth by ASTM D-7465 for Type I Non-reinforced EPDM Geomembrane.

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