INTERNATIONAL COVER SYSTEMS

45 mil Ethylene Propylene Diene Terpolymer (EPDM)

EPDM is a highly durable geomembrane that is compatible with fish and plant life. A highly flexible material in a wide variety of temperatures, EPDM lays flat in a wide range of terrains and conforms well to irregularities in the sub grade. This product exhibits high tensile strength and excellent resistance to punctures, UV radiation, weathering, and microbial attacks, making it ideal for many exposed applications.

- Aquaculture Applications
- Golf Course and Decorative Ponds
- Canals and Channels
- Lakes and Streams
- Fish Hatcheries
- Water Conservation Applications
- Constructed Wetlands
- Water Reservoirs

Certified Properties	ASTM	
Thickness (mil)	D-412	45 +10-10%
Specific Gravity (cc)	D-792	1.1
Unit Weight (lb/ft)	D-751	.29
Tensile Strength (psi)	D-412	1305
Ultimate Elongation (%)	D-412	300
Tear Resistance (lbf/in)	D-624	150
Puncture Resistance (lbs)	D-4833	30
Shore A Durometer	D-2240	65-10
Resistance to Ozone (7 days/100 @ 150°F 50% ext.)	D-1149	No Cracks
Multiaxial Elongation (%)	D-5617	100
Brittleness Point (°F)	D-2136	-49
Oven Aging at 240°F for 670 hours Tensile Strength, Die C (psi) Ultimate Elongation, Die C (%) Tear Resistance, Die C (lbf/in)	D-573 D-412 D-412 D-624	- 1205 200 125
Xenon Arc for 5040 kJ/(m^2.nm) @ 340 nm @ 80°C	G-155/G-151	-
Visual Inspection 7X No cracks or crazing bent loop @10% strain	D-518	pass
Water Resistance (%) Weight after immersion 166 hrs @ 158°F	D-471	+8, -2
Water Vapor Permeability (max) (Perm-mils)	E-96	2.0
Linear Dimensional Change, max (%)	D-1204	+/-1.0
Chronic Toxicity Screening	E-729 EPA/600/4-89/001	Passes Passes