Burke Environmental Products
a division of Burke Industries

Ecoseal Flexible Membrane Specification

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The following are the material properties for Ecoseal/Elvaloy® flexible membranes:

PHYSICAL PROPERTIES:

(These are interim values and subject to change).

Property	Test Method	M-512	M-499	M-616	M-615
Total Plies		3	3	3	5
Gauge (nominal)		35	45	45	60
Plies – Reinforcing		1	1	1	2
Thickness (mils min.)	ASTM D751				
1. Overall	Optical Method	27	41	41	55
2. Over Scrim		11	11	11	11
Breaking Strength (pounds min.)	ASTM D751 Grab Method	110	150	220	400
Elongation at Break (% min.)		125	100	30	30
Tear Propagation (pounds min.)	ASTM D751 Tongue Tear 8x8 Sample	12	25	80	125
Hydrostatic Pressure (Min. resistance, psi)	ASTM D751 Method A Procedure 1	135	180	250	400
Puncture Resistance (pounds typical)	FTMS 101B Method 2031	160	210	250	300
Bonded Seam Strength (pounds min.)	ASTM D751 Modified (12 in./min.)	110	150	160	250
Ply Adhesion (lbs./in-width min.)	ASTM D143 Machine Method Type A (12 in./min.)	8	8	7	7
Ozone Resistance	ASTM D1149 1/8" Bent Loop 100 PPHM 104°F, 7 days	No Cracks at 7x	No Cracks at 7x	No Cracks at 7x	No Cracks at 7x
Low Temperature	ASTM D2136 1/8" Mandrel 4 Hrs. @ -10°F	Pass	Pass	Pass	Pass

ECOSEAL – Burke's thermoplastic polymer alloy based on Du Pont Elvaloy®.

An industrial grade, oil resistant liner and cover material with excellent weathering properties.

- Can be sealed with heat or solvent based adhesive.
- User friendly, easily repaired even after years of exposure.
- Suitable for most secondary containment applications.
- Applicable in sunlight and guaranteed against normal weathering.

These specification tables represent current opinion of the data points to characterize the membrane product as produced and are not necessarily appropriate for product performance or installation or engineering design criteria "per se". (For example, the low temperature resistance numbers represent qualities for a few minutes at a given temperature and must not be interpreted or extrapolated into installation temperature qualities or comparisons).

**Minimum specification limits are currently proposed industry standards for this type of flexible membrane product. Burke Quality Control monitoring limits for this specification are based on a minimum 97.7% one-sided confidence level.*

Oily wastewater holding pond, U.S. Forest Service, Prescott, AZ.

Field seaming during pond construction