



EPDM

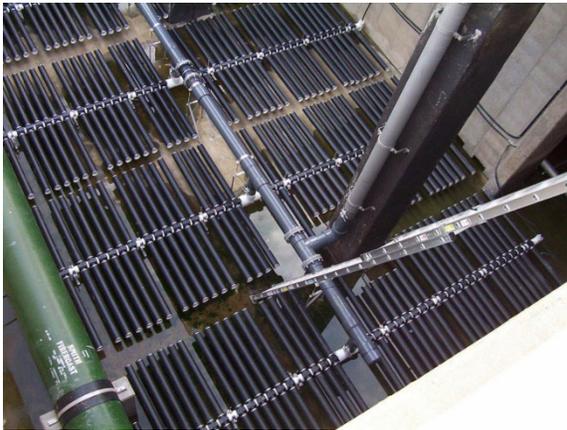
FlexAir® Pro Disc, Tube and Panel and now
FlexAir® Basic Disc Technology

Membrane material is crucial in fine bubble diffuser performance; because polymers' efficacy, efficiency, service life, and maintenance depend on its chemical composition, compound factors such as extractable oils, reinforcing fillers, and curing technique. For almost 50 years, EDI has developed EPDM membrane materials and used cutting-edge manufacturing processes to create a field-tested membrane for municipal wastewater and industrial applications, providing first-rate Standard Oxygen Transfer Efficiencies (SOTE) and limiting head loss.

Material Features

- Available for FlexAir Pro Disc, Panel and Tube diffuser technologies. Suitable for FlexAir Basic Disc technology.
- Offers chemical resistance for municipal and industrial applications.
- Standard lifespan of most municipal applications is 10+ years.
- Membrane maintenance is done without installing a new diffuser unit, reducing plastic pollution.
- UV protection is an incorporated standard.
- Reduced oil content for improved stability and no inorganic fillers.
- Resistant to ketones and alcohols, not recommended for aliphatic or aromatic compounds.
- Effective in temperatures as low as -76°F (-60°C) and up to 240°F (170°C).
- Special armor coating on base EPDM for specific industrial applications.

	Unit	Disc	Tube
Hardness (ASTM D2240)	Shore A	55 +/- 5	58 +/- 5
Specific Gravity (ASTM D792)		< 1.20	
Tensile Strength (ASTM D412)	psi MPa	> 1300 > 9.0	> 1150 > 7.9
Tensile Modulus @100% elongation	psi MPa	> 150 > 1.03	> 225 > 1.55
Tensile Modulus @300% elongation	psi MPa	> 425 > 2.93	> 550 > 3.79
Ultimate Elongation		> 400%	
Tear Strength	lb _t /in kN/m	> 35 > 6.1	> 40 > 7
Surface Ozone Cracking Resistance @55ppm		Non-Cracking	
Low Temperature @ -40°C		Non-Brittle	
Extractable Oil Content		< 15%	< 25%



Working with EDI is easy:

1 We walk you through exactly what project info we need. Call +1 573 474 9456 or visit wastewater.com.

2 We supply drawings, specs, best-in-class aeration, support, even install!

3 You rest easy, knowing your plant has **Aeration for life®**



SPECIFICATION: EPDM Membrane
(SS167-EA-24-02)