



Introducing Silicone Plus and EPDM Plus Diaphragms

355 Pioneer Way
Suite B
Mountain View, CA 94041
800-882-3886
www.ASEPCO.com

Asepco Combines the Toughness of Teflon and the Sealing Performance of Rubber

You now have a wider choice of elastomeric sealing material. Parylene is deposited as a powder and flows in a vacuum, forming an impermeable conforming surface coating. The two main benefits for you are:

- Increased diaphragm life (double the life of our standard silicone and EPDM)
- Increased chemical resistance

For over 30 years Parylene has been used in medical device (Pacemakers) applications. Parylene, like Teflon®, is hydrophobic and highly resistant to chemical attack. Parylene is a conformal coating that covers all surfaces of a part equally.

In addition to the benefits listed above, Parylene also offers these benefits:

- USP Class VI certified
- Continuous pinhole-free in thickness down to 500 angstroms
- Insoluble in organic solvents @ <150°C
- Unaffected by most acids and alkalis
- Low moisture permeability
- Dry film lubricity approaching that of PTFE
- Thermal mechanically stable between -200°C and 150°C

Parylene has chemical resistance similar to Teflon. It resists attack and is insoluble in all organic solvents up to 150°C and is resistant to permeation by most solvents with the exception of aromatic hydrocarbons.

Since parylene coating is a high molecular weight, linear, crystalline polymer having an all carbon backbone without any oxygen, nitrogen, or sulfur atom links in the backbone it is hydrophobic. This carbon backbone, coupled with its substantial crystallinity, makes Parylene quite stable and highly resistant to chemical attack.

Additional technical data available on request.