

Chemical Resistance of AEROFLEX EPDM™

Aeroflex USA manufactures the AEROFLEX® brand of EPDM (Ethylene Propylene Diene Monomer) closed cell elastomeric insulation for North America. Available in preformed tubes, sheets, and rolls, our synthetic rubber is engineered to thermally insulate commercial and industrial mechanical systems such as HVAC, VRF, refrigeration, and plumbing piping, equipment, and ductwork.

Other similar elastomeric insulation products for mechanical systems are composed of NBR (Acrylonitrile Butadiene Rubber) and PVC (Polyvinyl Chloride) elastomers. When searching for the chemical resistance of an elastomeric insulation for mechanical systems, it's critical to verify the synthetic rubber composition since EPDM and NBR/PVC chemical resistance varies.

Chemical resistance is also dependent on chemical concentration, length of exposure, and temperature.

While it is impractical for Aeroflex USA to physically test a myriad of chemicals, DuPont and The Los Angeles Rubber Group, Inc. offer a user-friendly quick reference guide (DuPont Chemical Resistance Guide) for the general chemical resistance of various elastomers, including EPDM and NBR.

https://ms-crm-dupont.my.salesforce-sites.com/CRG_TlارجiGuide

Simply select the chemical in the left drop-down menu to view chemical resistance ratings ranging from 1 (little or minor effect) to 4 (not recommended). For example, when “acetone” is selected, EPDM is rated 1 and NBR is rated 4.

This third-party guide is intended as a general quick reference for the convenience of our customers. Aeroflex USA will not be held responsible for actual chemical exposure without being contacted to review and recommend if our EPDM is suitable for your application.

For specific chemical resistance concerns with AEROFLEX EPDM, please contact Aeroflex USA at <https://aeroflexusa.com/contact-us>.

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