

3M Advanced Materials Division

# 3M™ Dyneon™ Fluoroelastomer Seals and Components

## Obtaining the performance and quality you desire

Fluoroelastomers have earned a reputation for performance in aggressive chemical and high temperature environments. You may be considering fluoroelastomer seals and components for critical applications where reliability and service life are important. But even given the high performance reputation of the materials, you want to be confident that the fluoroelastomer seal you select meets your specification requirements.

3M collaborates worldwide with fluoroelastomer fabricators who provide seals and components designed to meet performance needs. This collaboration allows you, the user of these components, to rest assured that your application requirements are met, not solely by virtue of the brand name of material you use, but through the material supplier and the seal/component manufacturer's understanding of how material and product design work together.

## Fluoroelastomer materials

Fluoroelastomers are known widely by their trade names, with perhaps Dyneon™ and Viton® being among the most recognized names in the marketplace. 3M™ Dyneon™ Fluoroelastomers are well-known in the industry, with a legacy that stretches back to 1953. That's over 60 years of fluoroelastomer performance and innovation by 3M.

Dyneon fluoroelastomers are produced in several 3M locations around the world and are sold and supported technically in all regions of the globe.

## How to choose a fluoroelastomer

Brand name is one aspect of material choice. Dyneon fluoroelastomers and other fluoroelastomers, such as Viton®, are polymerized from the same monomer components or chemical species, and display similar properties. However, your broader need is to satisfy a performance requirement in your process with a seal or fabricated component. Meeting this need depends upon a close working relationship between your component supplier and material supplier. 3M can satisfy the material requirements with our broad range of fluoroelastomer products, and we provide technical support to customers and end-users that ultimately can make a difference in performance of the end product.



Components made from  
3M™ Dyneon™ Fluoroelastomers

## Why your seal manufacturer may be recommending a Dyneon fluoroelastomer from 3M

Your seal manufacturer has experience designing and manufacturing seals using a Dyneon fluoroelastomer product. 3M provides a range of fluoroelastomers and technical support to help ensure that the seal or component you receive meets the high performance, reliability, and cost effective requirements of your application.

## How do I specify fluoroelastomer seals and components?

First, specify your performance criteria. Then, specify the fluoroelastomer. Your seal or component supplier will work with you to select the grade of fluoroelastomer that meets your requirements. Regardless of any fluoroelastomer manufacturers' claims, including ours, material brand name does not ensure performance; rather, it is the seal or component manufacturer who is responsible for meeting or exceeding your application's specific requirements. 3M offers support in product selection, formulation, processing, and innovation of new fluoroelastomer products.

## 3M™ Dyneon™ Fluoroelastomers: A variety of choices. Outstanding performance.

The fluoroelastomer product family includes:

- Fluoroelastomer Dipolymers and Terpolymers
- Base Resistant Elastomer (BRE)
- Peroxide Curable Fluoroelastomers
- Multifunctional Improved Productivity (MIP) Fluoroelastomers
- Perfluoroelastomers
- Low Temperature Fluoroelastomers

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