

# M SEALS BFPM-GFB84

Increased Chemical Resistance Fluorocarbon Elastomer (FPM GF)



**MATERIAL DATA SHEET (Version 6.0 – 05.2022)**



Chemical Resistance



High Temperature

## Description

BFPM-GFB84 is a black peroxide cured 84a Shore Fluorocarbon elastomer material, commonly referred to as FPM-GF or Viton™ GF which has been modified to provide increased chemical resistance.

Fluorocarbon GF elastomers exhibit increased chemical and thermal resistance against a wide range of media such as mineral oil, HFD-U, HETG (biological base), hot water, steam and some acids.

Due to the high Fluorine content of this material the early onset of compression set can be seen, especially at elevated temperatures.

## Physical Properties

Property	Test method	Unit	Typical value
Colour			Black
Density	ISO 1183-1	g/cm <sup>3</sup>	1.87
Hardness	ISO 7619-1	Shore A	84 (+/-5)
Tensile Strength	DIN 53504	MPa	14.6
100% Modulus	DIN 53504	MPa	6.7
Elongation at break	DIN 53504	%	232
Compression set (24 Hours @ 175°C)	ISO 815-1	%	25.6
Minimum service temperature		°C	-10
Maximum service temperature		°C	+220

Viton™ is a registered trademark of the Chemours company.

## Main Characteristics

- Increased resistance against hot water & steam
- Increased chemical resistance compared to standard FPM
- No tooling required

## Typical Products

- U-Seals & Wiper seals
- Static seals & O-Rings
- Piston seals

Tel: 0044 (0) 114 243 2777 . Fax: 0044 (0) 114 242 2300 . Mail: [sales.esd@m-seals.co.uk](mailto:sales.esd@m-seals.co.uk) . Web: [www.m-seals.com](http://www.m-seals.com)

M Seals believes that the information above is an accurate description of the typical characteristics and/or uses of the product or products, however M Seals makes no warranty, expressed or implied, that parts manufactured from this / and or any other material will perform satisfactorily in the customers application. It is the customers responsibility to thoroughly test products in their specific application to determine performance, efficiency and safety for each end-use product, device or application. The information and data contained herein are based on standard test pieces according to the corresponding ISO, DIN & ASTM standards and cannot be directly related to finished seals, gaskets or other sealing products and should be used only as a general guide.