

M SEALS BFPM-GLTB85

85a Low Temperature FPM/FKM Fluorocarbon Rubber

MATERIAL DATA SHEET (Version 6.0 – 05.2022)

M SEALS
- Part of Diploma PLC



High Temperature



Chemical Resistance



Low Temperature

Description

M Seals material BFPM-GLTB85 is our low temperature grade Fluorocarbon rubber (FPM/FKM), which is commonly referred to as FKM-LT or Viton-GLT™. This material provides excellent chemical resistance and high temperature resistance just like standard grades of FKM/FPM but has improved low temperature flexibility.

BFPM-GLTB85 is suitable for use with most mineral oils, greases, fuels, industrial phosphate ester, hydrocarbons, diesel and air up to +200°C. It can also be used for sealing gas, air and some acids.

It is not recommended to use this material in glycols, ketones, most fluids containing amines, hot water or steam.

Physical Properties

Property	Test method	Unit	Typical value
Colour			Black
Density	ISO 1183	g/cm³	1.81
Hardness	DIN 53505	Shore A	85 (+/-5)
Tensile Strength	DIN 53504	MPa	6
Elongation at break	DIN 53504	%	190
Tear strength	DIN 53515	kN/m	>5
Rebound resilience	DIN 53512	%	16
Compression set (24 Hours @ 100°C, 25%)	ISO 815-1	%	≤16
Compression set (24 Hours @ 175°C, 25%)	ISO 815-1	%	16.5
Minimum service temperature		°C	-40
Maximum service temperature		°C	+200
Maximum service temperature short term (Hot Air)		°C	+230

Viton™ is a registered trademark of the Chemours company

Main Characteristics

- Excellent chemical resistance
- Excellent high temperature capability
- Excellent low temperature flexibility

Typical Products

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

Typical Applications

Due to its excellent low temperature flexibility, BFPM-GLTB85 Fluorocarbon elastomer can be used in a wide range of applications such as hydraulic and pneumatic systems operating in extreme low temperature environments or applications sealing Phosphate ester type fluids (HFD).

Tel: 0044 (0) 114 243 2777 . Fax: 0044 (0) 114 242 2300 . Mail: sales.esd@m-seals.co.uk . Web: 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.