

M SEALS FPMFQ-BL80

Blue EC1935/2004 compliant Fluorocarbon Elastomer (FPM)



MATERIAL DATA SHEET (Version 6.0 – 05.2022)



EC1935-2004 Compliant



ADI free

Description

FPMFQ-BL80 is an 80a Shore Fluorocarbon elastomer material which has been specially developed for food stuff applications and has a distinct blue colouring for easy identification.

The material components used for development of this material are in accordance with EU No 1935/2004 and also EU No 2023/2006 regulations and are allowed for food contact use.

FPMFQ-BL80 exhibits excellent chemical and thermal resistance against a wide range of media commonly found within the food industry, while also being resistant to most cleaning fluids. FPMFQ-BL80 is suitable for use with most mineral oils, greases, fuels, industrial phosphate ester, hydrocarbons and diesel. 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. Fluorocarbon elastomers are generally referred to as FKM, FPM and Viton™. Viton™ is a registered trademark of DuPont.

Physical Properties

Property	Test method	Unit	Typical value
Colour			Blue
Density	ISO 1183-1	g/cm ³	2.53
Hardness	ISO 7619-1	Shore A	80 (+/-5)
Tensile Strength	DIN 53504	MPa	7
100% Modulus	DIN 53504	MPa	4
Elongation at break	DIN 53504	%	180
Compression set (24 Hours @ 70°C, 25%)	ISO 815-1	%	≤6
Compression set (24 Hours @ 100°C, 25%)	ISO 815-1	%	≤8
Minimum service temperature		°C	-17
Maximum service temperature		°C	+200

Main Characteristics

- Blue in colour for easy identification
- (EC) 1935/2004 Compliant
- Good compression set resistance
- No tooling required
- ADI free

Typical Products

- Triclover seals
- RJT seals
- DIN 11851 D-Seals
- Depositor seals
- Butterfly valve seals

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