

M SEALS FPMFQ-WH85

White FDA compliant Fluorocarbon Elastomer

MATERIAL DATA SHEET (Version 6.0 – 05.2022)



FDA Ingredient Compliant



ADI free



Description

FPMFQ-WH85 is a white peroxide cured 85a Shore FDA compliant Fluorocarbon elastomer material, commonly referred to as FPM-GF or Viton™ GF which has been modified to provide increased chemical resistance. All single components used in the manufacture of this material are listed on Code of Federal Regulation of U.S. Food and Drug Administration (FDA) and are mentioned in sub-chapter CFR 21 177.2600 and are allowed for food contact use.

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

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			White
Density	ISO 1183-1	g/cm ³	2.59
Hardness	ISO 7619-1	Shore A	85 (+/-5)
Tensile Strength	DIN 53504	MPa	10.5
100% Modulus	DIN 53504	MPa	4.56
Elongation at break	DIN 53504	%	452
Compression set (24 Hours @ 175°C)	ISO 815-1	%	61.8
Minimum service temperature		°C	-25
Maximum service temperature		°C	+210

Viton™ is a registered trademark of the Chemours company.

Main Characteristics

- White in colour to distinguish from standard black Nitrile
- Ingredients are CFR 177.2600 FDA Compliant
- Increased chemical resistance compared to standard FPM
- No tooling required
- ADI free

Typical Products

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

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