

M SEALS FPMFQ-BR85

Brown FDA compliant Fluorocarbon Elastomer Material

M SEALS
- Part of Diploma PLC

MATERIAL DATA SHEET (Version 6.0 – 05.2022)



FDA Compliant



EC1935-2004 Compliant



ADI free

Description

FPMFQ-BR85 is an 85a Shore FDA compliant Fluorocarbon elastomer material which has been modified and migration tested to comply with FDA requirements CFR 21 177.2600 for food contact use. Fluorocarbon elastomers exhibit excellent chemical and thermal resistance against a wide range of media and those commonly found within the food industry. 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			Brown
Density	ISO 1183-1	g/cm³	2.45
Hardness	ISO 7619-1	Shore A	85 (+/-5)
Tensile Strength	DIN 53504	MPa	8.5
100% Modulus	DIN 53504	MPa	6.3
Elongation at break	DIN 53504	%	208
Compression set (24 Hours @ 175°C)	ISO 815-1	%	12.3
Minimum service temperature		°C	-25
Maximum service temperature		°C	+210

Global migration results of FDA extraction on FPMFQ-BR85 material samples (mg/inch²)

FDA test method	Reflux test conditions	Mean	Limit*	Conclusion
CFR 177.2600 (e)	De-ionised water, 7 hours	2	20	PASS
CFR 177.2600 (e)	De-ionised water, 2 hours	<1	1	PASS
CFR 177.2600 (f)	N-hexane, 7 hours	<1	175	PASS
CFR 177.2600 (f)	N-hexane, 2 hours	<1	4	PASS

Main Characteristics

- Brown in colour to distinguish from standard black Nitrile
- CFR 177.2600 FDA Compliant
- Extraction tested and passed
- No tooling required
- ADI free

Typical Products

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

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