



**FPM-FDA F110 – brown
(bisphenole cross linked)**

General

F110-BR85 is a brown Fluorocarbon elastomere, commonly referred to as VITON® and FPM. FPM materials have a very high resistance to hydraulic fluids, chemicals and a number of organic compounds and operate in temperatures between -25 to +210°C. F110-BR85 is recommended for applications where its outstanding resistance to heat, chemicals, weathering and ozone is required. FPM-FDA F110 – brown is approved for the use of applications in contact with foodstuff.

Physical properties

Density:	DIN ISO 1183-1	g/cm ³	2,45	±0,03
Hardness at 23°C:	DIN ISO 7619-1	Shore A	85	±5
100% Modulus:	DIN 53504	N/mm ²	6,3	*
Tensile strength:	DIN 53504	N/mm ²	8,5	*
Elongation at break:	DIN 53504	%	208,1	*
Tear resistance:	DIN ISO 34-1 B/b	N/mm	16,0	*
Rebound resiliance:	DIN 53512	%	8,0	*
Compression set, 24h, 70°C, 25%:	DIN ISO 815-1	%	7,6	*
Compression set, 24h, 100°C, 25%:	DIN ISO 815-1	%	7,3	*
Compression set, 24h, 175°C, 25%:	DIN ISO 815-1	%	12,3	*

* mentioned values are subject to a tolerance of +/- 25%

Temperature range: -25°C to 210°C

Chemical resistance

- Resistant to: HFA, HFB, HFC Fluids, HFD-S, R Fluids, Mineral Oils, Vegetable Oils, Silicone Oils, Biodegradable Oils, Hydrocarbons, Alcohols, Diesel, Gasoline, Fuels, Ozone, Oxygen, Air up to 200°C
- Not Resistant to: Steam

Main application

Static and dynamic seals (standard and special), wipers, O-rings, flange seals, rotary seals, rubber energizers (preload elements). Applications in the food industry where high temp. and/or chemical resistance is required.

Available certificates

- Conform to (EC) No 1935/2004 on materials and articles intended to come into contact with food
- Conform to positive list of FDA 21 CFR 177.2600

Analysis and Evaluation

Values mentioned above are based on several tests performed during development and production of the material. Tests have been performed on standard test pieces specified within the relevant standard within the laboratory. Tests performed on any other pieces which are not related to the corresponding standard or made out of any (semi)finished part or any other part deviating in production process, dimension or age of the material from above may result in different values. The data represent our present empirical values and do not disengage the processor or user from his obligation to examine the usage of the material for his specific application.

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