

DATASHEET

DATASHEET		Date: 14-09-2020 Version: 4.0
CH No.	CHF110-BR85	
Basic elastomer	FPM (FDA)	
Colour	Brown (Bisphenole cross linked)	
Temperature range	From -25°C to +210°C	
Approvals	EC1935/2004 • EC2023/2006 • FDA 21 CFR177.2600 • RoHS • SVHC • ADI-free • WEEE • A-3 Sanitary Class I	

PHYSICAL PROPERTIES			
Properties	Unit	Value	Testing methods
Density	g/cm ³	2.45 ±0,03	DIN ISO 1183-1
Hardness at 23 °C	Shore A	85 ±5	DIN ISO 7619-1
100 % Modulus	N/mm ²	6.3 *	DIN 53504
Tensile strength	N/mm ²	8.5 *	DIN 53504
Elongation at break	%	208.1 *	DIN 53504
Tear Resistance	N/m	16 *	DIN ISO 34-1 B/b
Rebound resilience	%	8 *	DIN 53512
Compression set, 24 hours at 70°C	%	7.6 *	DIN ISO 815-1
Compression set, 24 hours at 100°C	%	7.3 *	DIN ISO 815-1
Compression set, 24 hours at 175°C	%	12.3 *	DIN ISO 815-1

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

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

General:

CHF110-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 CHF110-BR85 is recommended for applications where its outstanding resistance to heat, chemicals, weathering and ozone is required.

Main applications:

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

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 represents 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.

We reserve the right to update this data sheet from time to time if new empirical values are available. Errors and omissions excepted.