



FFKM B794 70

Perfluoro elastomer

Standard Colour: **White**

Service temperature: -20°C to +270°C

Designed specifically for the chemical process industry. Superior chemical resistance in chemicals, acids, bases, steam, organic and inorganic media, methanol, TBA and MBTE, esters and ethers.

Low contamination by extractable substances in pharmaceutical and food handling applications

Material approval. In accordance with USP Class VI and FDA 21 CFR 177.2600 requirements.
CE 1935/2004 compliant. 3A-Sanitary standard. D.M. 21/03/1973. BfR XXI

Physical properties	Unit	Test method	Value
Hardness Shore A	Shore A	ASTM D2240	70±5
Tensile strength	MPa	ASTM D412	13
Elongation	%	ASTM D412	130
Specific gravity	g/cm ³	ASTM D1817	2.41±0.03
Low temperature flexibility			
TR-10°C		ASTM D1329	-2
Compression Set			
70hrs at 200°C	%	ASTM D395 B/1	24

Changes to properties after ageing acc. To ASTM D471 and ASTM D573

Test parameter medium	Hardness %	Tensile strength %	Elongation %	Volume %
Air				
70hrs at 250°C	-1.5	+5	+15	
NaOH				
100 hrs at 72°C	-4			+5
Anhydrous ammonia				
168hrs at 45°C	+8			-1.5
Acetone				
168hrs at 23°C	-2			+4
MIBK				
168hrs at 115°C				+6
Hot Water				
168hrs at 150°C	-2			+2

The results displayed in this data sheet were obtained on standard test specimens following standard test procedures. Comparisons with results obtained on finished products, e.g. O-Rings, could lead to other results due to differences in geometry and manufacturing processes. These other results do therefore not automatically contravene the data of this sheet. The evaluation of parts prior to their use in order to ensure their suitability for the intended application is subject to the end user's responsibility.