

Material name, short description	FKM
Material name, based on technical standards	Fluorine elastomer
Material description / intended use	Fluoroelastomer with high heat resistance and broad chemical resistance.
Color	black
Compound code	FKM 75.75-01
Crosslinking/curing agent	Peroxide

**Mechanical properties**

Hardness nominal	75 ±5 Shore A ISO 7619
Density nominal	1.9 ±0.03 g/cm <sup>3</sup> ISO 2781
Tensile strength	8 N/mm <sup>2</sup> ISO 37-1
Elongation at break	170 % ISO 37-1
Tear resistance	20 N/mm ISO 34 C

**Thermal properties**

Operating temperature min.*	-10 °C
Operating temperature max.*	200 °C

\* Approximate value, dependent on the application

**Storage in medium 1**

Medium	IRM 903 Oil (ASTM 3)
Test parameter	72 h, 150 °C
Test standard	ISO 1817
Value change	Hardness: -7 Points Volume: 6 %

**Ozone test**

Ozone concentration	100 ppm
Test standard	ISO 1431-1
Duration of test	70 h
Temperature during test	30 °C
Elongation during test	50 %
Test result	PASSED

**Air aging 1**

Test parameter	72 h, 200 °C
Test standard	ISO 188
Value change	Hardness: 3 Points Tensile strength: -8 % Elongation at break: -10 %

**Approvals / Compliance**

Food & Beverage	FDA CFR 21 - 177.2600 "Rubber articles intended for repeated use" a) - f)
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In compliance with **RoHS** and **REACH** directives.

This information is based on our available data. These values are measured on standard test specimens and are within the normal tolerance range of material properties and do not represent guaranteed property values. Therefore they shall not be used for specification purposes. The customer is solely responsible for quality and suitability of material for his application. He has to test usage and processing prior to use. Angst+Pfister makes no guarantees for the suitability of the material for any given application and assumes no obligation or liability in connection with the information provided above.