

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	brown
Compound code	FKM 77.00-01
Crosslinking/curing agent	Bisphenol
Manufacturing process	moulded parts
Remarks	Co Polymer 66%

### Mechanical properties

Hardness nominal	77 +3/-2 Shore A ASTM D 2240
Density nominal	2.1 ±0.03 g/cm <sup>3</sup> ASTM D 297
Tensile strength	14.6 N/mm <sup>2</sup> ASTM D 412
Elongation at break	154 % ASTM D 412
Compression set	14 % ASTM D 395-B 22 h, 200 °C

### Thermal properties

Operating temperature min.*	-15 °C
Operating temperature max.*	200 °C
TR 10 value	-17 °C ASTM D 1329
Brittleness point	-15 °C ASTM D 2137-A

\* Approximate value, dependent on the application

### Storage in medium 1

Medium	IRM 901 Oil (ASTM 1)
Test parameter	70 h, 150 °C
Test standard	ASTM D 471
Value change	Hardness: +6 Points Tensile strength: -3.2 % Elongation at break: -4.5 % Volume: -0.4 %

### Storage in medium 2

Medium	ASTM Fuel C
Test parameter	70 h, 23 °C
Test standard	ASTM D 471
Value change	Hardness: -2 Points Tensile strength: -7 % Elongation at break: -12 % Volume: +3 %

### Storage in medium 3

Medium	ASTM Service Liquid 101
Test parameter	70 h, 200 °C
Test standard	ASTM D 471
Value change	Hardness: -6 Points Tensile strength: -11 % Elongation at break: -8 % Volume: +12 %

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.

## Air aging 1

Test parameter	70 h, 250 °C
Test standard	ASTM D 573
Value change	Hardness: +3 Points Tensile strength: -5 % Elongation at break: -7 %

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