

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 80.45-01
Old, but still valid compound code	FKM 80.445-01 / FKM 80.445-08
Crosslinking/curing agent	bisphenol
Remarks	Co-Polymer ASTM code: ASTM D2000 M2HK810 A1-10 B38 EO78 EF31

Mechanical properties

Hardness nominal	80 ±5 Shore A ASTM D 2240
Hardness	78 Shore A ASTM D 2240
Density nominal	2.16 g/cm ³ ASTM D 297
Tensile strength	12.9 N/mm ² ASTM D 412
Elongation at break	193 % ASTM D 412-C
Compression set	16 % 22 h, 200 °C

Thermal properties

Operating temperature min.*	-20 °C
Operating temperature max.*	200 °C

* Approximate value, dependent on the application

Storage in medium 1

Medium	ASTM Fuel C
Test parameter	70 h, 23 °C
Value change	Hardness: -3 Points Tensile strength: -20 % Elongation at break: +18 % Volume: +3 %

Storage in medium 2

Medium	IRM 101 Oil (ASTM 101)
Test parameter	70 h, 200 °C
Value change	Hardness: -9 Points Tensile strength: -23 % Elongation at break: +31 % Volume: +11 %

Air aging 1

Test parameter	70 h, 250 °C
Value change	Hardness: +4 Points Tensile strength: +3 % Elongation at break: -18 %

Approvals / Compliance

Specific substance statements	PAH Class 2 (AfPS GS 2019:01)
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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.