

# FKM 70.501-05

**General compound description**

Material name, short description	FKM
Material name, based on technical standards	Fluorine elastomer
Compound Code	FKM 70.501-05
Material description / intended use	Fluoroelastomer with high heat resistance and broad chemical resistance.
Color	black
Remarks	Low temperature compound, based on DuPont-Polymer Type „GLT“

**Mechanical properties**

Density	1.86 g/cm <sup>3</sup> ± 0.03 ASTM D 297
Hardness	70 Shore A ± 5 ASTM 2240
Tensile strength	15.4 MPa ASTM D 412
Elongation at rupture	245 % ASTM D 412
Compression set	18.6 % ASTM D 395-B2 22 h, 200 °C

**Thermal properties**

Min. operating temperature	-30 °C
Max. operating temperature	200 °C
TR 10 value	-30 °C ASTM D 1329
Glass transition temperature	-30 °C VDA 675 116

**Chemical state change**

Air aging	
Value change 1	Hardness: +1.5 Points Tensile strength: -7.3 % Elongation at rupture: -8.4 % Test norm: ASTM D 573 Test parameter: 70 h, 200 °C
Storage in medium	
Value change 1	Medium: ASTM Fuel B Hardness: -1 Points Tensile strength: -14.7 % Elongation at rupture: -9.6 % Volume: +2.6 % Test norm: ASTM D 471 Test parameter: 70 h, 23 °C
Value change 2	Medium: IRM 903 Oil (ASTM 3) Hardness: -2 Points Volume: +2.7 % Test norm: ASTM D 471 Test parameter: 70 h, 150 °C
Value change 3	Medium: ASTM FAM E Hardness: -4.5 Points Volume: +5.3 % Test norm: ASTM D 471 Test parameter: 168 h, 125 °C
Value change 4	Medium: ASTM M15 Hardness: -14.5 Points Volume: +38.6 % Test norm: ASTM D 471 Test parameter: 168 h, 23 °C