

Data Sheet: FFKM3109 (was 8722)

MATERIAL: PERFLUOROELASTOMER 90 SHORE

Developed for Oil and Gas Industries. High chemical resistance. Very low temperature capability.

COLOUR: BLACK

GENERAL SERVICE TEMPERATURE RANGE: -40°C to 230°C continuous (+260°C /3000 hours)

				Tested values
100% modulus	Mpa	ASTM D412		10,3
Tensile strength	Mpa	ASTM D412		13
Ultimate elongation	%	ASTM D412		114
Hardness	Shore A	ASTM D2240		90
				Compression set
Permanent set	%	ASTM D395/B	70 hrs / 200°C	23
				Low temperature properties
TR-10	°C	ASTM D1329		-29
Tg (glass transition)	°C	ASTM D3418		-30
				Steam immersion*
Change in tensile strength	%	ASTM D471	168 hrs / 220°C	-26
Change in ultimate elongation	%	ASTM D471	168 hrs / 220°C	+39
Change in hardness	Shore A	ASTM D471	168 hrs / 220°C	-2
Change in volume	%	ASTM D471	168 hrs / 220°C	+0,6
				Methanol immersion*
Change in tensile strength	%	ASTM D471	168h hrs / 23°C	-8
Change in ultimate elongation	%	ASTM D471	168h hrs / 23°C	+6
Change in hardness	Shore A	ASTM D471	168h hrs / 23°C	-1
Change in volume	%	ASTM D471	168h hrs / 23°C	+0,8
				Ethylenediamine immersion*
Change in tensile strength	%	ASTM D471	72 hrs / 100°C	-39
Change in ultimate elongation	%	ASTM D471	72 hrs / 100°C	+57
Change in hardness	Shore A	ASTM D471	72 hrs / 100°C	-9
Change in volume	%	ASTM D471	72 hrs / 100°C	+11

The above test results are based on test slabs / buttons. The results from the actual parts may be different.

Issue Date: 19.05.2023