

Data Sheet: FFKM3111 (Was 8732)

MATERIAL: PERFLUOROELASTOMER 90 +/- 5 SHORE

High chemical resistance and low temperature capability. Developed for the Oil & gas Industry.
Explosive decompression resistant, tested to Norsok M-710.

COLOUR: BLACK

GENERAL SERVICE TEMPERATURE RANGE: -45°C to +250°C continuous

PHYSICAL PROPERTIES	TEST METHOD	TEST RESULT
HARDNESS SHORE A	ASTM D2240	90
TENSILE STRENGTH, MPa	ASTM D412	13.6
ELONGATION, %	ASTM D412	111
MODULUS 100%	ASTM D412	11.2

COMPRESSION SET

70 hrs @ 200°C %	ASTM D395/B	26
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LOW TEMPERATURE FLEXIBILITY

TR-10°C	ASTM D1329	-29
TG (GLASS TRANSITION)	ASTM D3418	-30

STEAM IMMERSION, 168 hrs @ 220°C

HARDNESS CHANGE, SHORE A	ASTM D471	-2
TENSILE STRENGTH CHANGE, %	ASTM D471	-26
ELONGATION CHANGE, %	ASTM D471	+39
VOLUME CHANGE, %	ASTM D471	+0.6

METHANOL IMMERSION, 168 hrs @ 23°C

HARDNESS CHANGE, SHORE A	ASTM D471	-1
TENSILE STRENGTH CHANGE, %	ASTM D471	-8
ELONGATION CHANGE, %	ASTM D471	+6
VOLUME CHANGE, %	ASTM D471	+0.8

ETHYLENEDIAMINE IMMERSION, 72 hrs @ 100°C

HARDNESS CHANGE, SHORE A	ASTM D471	-9
TENSILE STRENGTH CHANGE, %	ASTM D471	-39
ELONGATION CHANGE, %	ASTM D471	+57
VOLUME CHANGE, %	ASTM D471	+11

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

Issue Date: 26.03.2014