

Data Sheet: FFKM3416 (was 8706)

MATERIAL: PERFLUOROELASTOMER 90 SHORE

For General use with outstanding resistance to aggressive media.

COLOUR: BLACK

GENERAL SERVICE TEMPERATURE RANGE: -10°C to 230°C continuous (260°C Peak)

PHYSICAL PROPERTIES

	TEST METHOD	TEST RESULT
HARDNESS SHORE A	ASTM D2240	92
TENSILE STRENGTH, MPa	ASTM D412	18
ELONGATION, %	ASTM D412	120
MODULUS 100%	ASTM D412	17

COMPRESSION SET

70hrs @ 200°C %	ASTM D395/B	19
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LOW TEMPERATURE FLEXIBILITY

TR-10°C	ASTM D1329	-2
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AIR AGEING, 70hrs @ 230°C

HARDNESS CHANGE, SHORE A	ASTM D573	+1
TENSILE STRENGTH CHANGE, %	ASTM D573	-6
ELONGATION CHANGE, %	ASTM D573	+15

STEAM IMMERSION, 168hrs @ 220°C

HARDNESS CHANGE, SHORE A	ASTM D471	0
TENSILE STRENGTH CHANGE, %	ASTM D471	-19
ELONGATION CHANGE, %	ASTM D471	+38
VOLUME CHANGE, %	ASTM D471	+1

SULFURIC ACID 98% IMMERSION, 70hrs @ 60°C

HARDNESS CHANGE, SHORE A	ASTM D471	0
TENSILE STRENGTH CHANGE, %	ASTM D471	-5
ELONGATION CHANGE, %	ASTM D471	-12
VOLUME CHANGE, %	ASTM D471	+0.1

AMMONIA, ANHYDROUS IMMERSION, 500hrs @ 100°C

HARDNESS CHANGE, SHORE A	ASTM D471	+6
TENSILE STRENGTH CHANGE, %	ASTM D471	-7
ELONGATION CHANGE, %	ASTM D471	-6
VOLUME CHANGE, %	ASTM D471	+0.4

SOLVENT BLEND IMMERSION (1/3 MEK + TOLUENE + METHYLENE CHLORIDE)

HARDNESS CHANGE, %	ASTM D471	-1
VOLUME CHANGE, %	ASTM D471	0

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

Issue Date: 17.12.2014