

Data Sheet: FFKM3704

MATERIAL: PERFLUOROELASTOMER 80 SHORE

This compound is recommended for General use for high temperatures. It has broad chemical resistance and excellent steam resistance.

COLOUR: BLACK

GENERAL SERVICE TEMPERATURE RANGE: -10°C to +300°C continuous (+330°C Peak)

PHYSICAL PROPERTIES	TEST METHOD	TEST RESULT
HARDNESS SHORE A	ASTM D2240	80
TENSILE STRENGTH, MPa	ASTM D412	16.5
ELONGATION, %	ASTM D412	130
MODULUS 100%,	ASTM D412	13.6

COMPRESSION SET	TEST METHOD	TEST RESULT
70 hrs @ 200°C %	ASTM D395/B	23

LOW TEMPERATURE FLEXIBILITY	TEST METHOD	TEST RESULT
TR-10°C	ASTM D1329	-1

AIR AGEING, 70 hrs @ 300°C	TEST METHOD	TEST RESULT
HARDNESS CHANGE, SHORE A	ASTM D573	-2
TENSILE STRENGTH CHANGE, %	ASTM D573	-20
ELONGATION CHANGE, %	ASTM D573	+40

STEAM IMMERSION, 168 hrs @ 220°C	TEST METHOD	TEST RESULT
HARDNESS CHANGE, SHORE A	ASTM D471	-2
TENSILE STRENGTH CHANGE, %	ASTM D471	-9
ELONGATION CHANGE, %	ASTM D471	+5
VOLUME CHANGE, %	ASTM D471	+2.2

CHLORIDRIC ACID 37% IMMERSION, 70 hrs @ 80°C	TEST METHOD	TEST RESULT
HARDNESS CHANGE, SHORE A	ASTM D471	-1
TENSILE STRENGTH CHANGE, %	ASTM D471	-4
ELONGATION CHANGE, %	ASTM D471	-15
VOLUME CHANGE, %	ASTM D471	+1.6

POTASSIUM HYDROXIDE 50% IMMERSION, 168 hrs @ 125°C	TEST METHOD	TEST RESULT
HARDNESS CHANGE, SHORE A	ASTM D471	-2
TENSILE STRENGTH CHANGE, %	ASTM D471	-10
ELONGATION CHANGE, %	ASTM D471	-15
VOLUME CHANGE, %	ASTM D471	+0.4

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FLUID RESISTANCE OVERVIEW

VOLUME CHANGE, %	AMINES (RT)	<10
VOLUME CHANGE, %	KETONES	<10
VOLUME CHANGE, %	ESTERS	<10
VOLUME CHANGE, %	ETHERS	<10
VOLUME CHANGE, %	SOUR GAS	<10

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

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