

# Data Sheet: FFKM8702

## MATERIAL: FFKM8702 PERFLUOROELASTOMER 70 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	71
TENSILE STRENGTH, MPa	ASTM D412	18.5
ELONGATION, %	ASTM D412	150
MODULUS 100%	ASTM D412	9.2
<b>COMPRESSION SET</b>		
70hrs @ 200°C %	ASTM D395/B	19
<b>LOW TEMPERATURE FLEXIBILITY</b>		
TR-10°C	ASTM D1329	-2
<b>AIR AGEING, 70hrs @ 230°C</b>		
HARDNESS CHANGE, SHORE A	ASTM D573	+1
TENSILE STRENGTH CHANGE, %	ASTM D573	-1
ELONGATION CHANGE, %	ASTM D573	+7
<b>STEAM IMMERSION, 168hrs @ 210°C</b>		
HARDNESS CHANGE, SHORE A	ASTM D471	+1
TENSILE STRENGTH CHANGE, %	ASTM D471	-20
ELONGATION CHANGE, %	ASTM D471	+16
VOLUME CHANGE, %	ASTM D471	0
<b>HYDROCHLORIC ACID 37% IMMERSION, 72hrs @ 80°C</b>		
HARDNESS CHANGE, SHORE A	ASTM D471	-2
TENSILE STRENGTH CHANGE, %	ASTM D471	+3
ELONGATION CHANGE, %	ASTM D471	+8
VOLUME CHANGE, %	ASTM D471	+2
<b>SODIUM HYDROXIDE 40% IMMERSION, 72hrs @ 100°C</b>		
HARDNESS CHANGE, SHORE A	ASTM D471	0
TENSILE STRENGTH CHANGE, %	ASTM D471	+10
ELONGATION CHANGE, %	ASTM D471	+4
VOLUME CHANGE, %	ASTM D471	+0.6

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**PHYSICAL PROPERTIES****REQUIREMENT****TEST RESULT****FLUID RESISTANCE OVERVIEW**

VOLUME CHANGE, %	ACIDS	<10
VOLUME CHANGE, %	KETONES	<10
VOLUME CHANGE, %	ESTERS	<10
VOLUME CHANGE, %	ETHERS	<10
VOLUME CHANGE, %	ALKALIS	<10

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

**Issue Date: 10.11.2011**