

# Data Sheet: FFKM8742

## MATERIAL: PERFLUOROELASTOMER 75 SHORE

General purpose material, with outstanding resistance to aggressive media. Low temperature applications.

**COLOUR:** BLACK

**GENERAL SERVICE TEMPERATURE RANGE:** -30°C to + 200°C continuous (+220°C Peak)

PHYSICAL PROPERTIES	TEST METHOD	TEST RESULT
HARDNESS SHORE A	ASTM D2240	73
TENSILE STRENGTH, N/mm <sup>2</sup>	ASTM D412	12.8
ELONGATION, %	ASTM D412	122
MODULUS 100%, N/mm <sup>2</sup>	ASTM D412	12.1
<b>COMPRESSION SET</b>		
70 hrs @ 200°C %	ASTM D395/B	25
<b>LOW TEMPERATURE FLEXIBILITY</b>		
TR-10°C	ASTM D1329	-20
GLASS TRANSITION (DMA)	ASTM D7028	-20
BRITTLE POINT	ASTM D2137	-24

### FLUID RESISTANCE OVERVIEW

VOLUME CHANGE, %		
240 hrs @ 40°C	NITRIC ACID	<5
240 hrs @ 40°C	SODIUM HYDROXIDE (30%)	<5
504 hrs @ 40°C	AMMONIA (28%)	<5
504 hrs @ 40°C	ACETONE	<5
505 hrs @ 40°C	ETHYLENEDIAMINE	<5
720 hrs @ 40°C	STEAM	<5

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

**Issue Date: 11.02.2015**