

# Data Sheet: FFKM8741

## MATERIAL: PERFLUOROELASTOMER 75 SHORE

Improved chemical resistance grade. Designed for mid and high temperature chemical resistant applications. Excellent compression set and long term performance. Compound is certified as USP Class VI for pharmaceutical industry.

**COLOUR:** BLACK

**GENERAL SERVICE TEMPERATURE RANGE:** -5°C to +275°C (continuous operating temperature)

PHYSICAL PROPERTIES	TEST METHOD	TEST RESULT
HARDNESS SHORE A	ASTM D2240	76
TENSILE STRENGTH, MPa	ASTM D412	15.8
ELONGATION, %	ASTM D412	129
MODULUS 100%	ASTM D412	11.6
<b>COMPRESSION SET</b>		
70 hrs @ 200°C %	ASTM D395/B	15
<b>LOW TEMPERATURE FLEXIBILITY</b>		
TR-10°C	ASTM D1329	0
<b>AIR AGEING,</b>		
WEIGHT LOSS 30 DAYS @ 200°C, %		0.5
WEIGHT LOSS 30 DAYS @ 250°C, %		2.2
WEIGHT LOSS 30 DAYS @ 275°C, %		3.4
<b>FLUID RESISTANCE OVERVIEW</b>		
VOLUME CHANGE, % 168hrs / 100°C	TOLUENE	+7
VOLUME CHANGE, % 168hrs / 85°C	HNO <sub>3</sub>	+5
VOLUME CHANGE, % 168hrs / 100°C	GLACIAL ACETIC ACID	+6
VOLUME CHANGE, % 168hrs / 100°C	AMMONIA 30%	+7
VOLUME CHANGE, % 336hrs / 60°C	ETHYLENEDIAMINE	+14
VOLUME CHANGE, % 168hrs / 200°C	H <sub>2</sub> O	+6
VOLUME CHANGE, % 168hrs / 200°C	STEAM	+3

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

**Issue Date: 07.05.2014**