

# Data Sheet: FFKM8759

## MATERIAL: PERFLUOROELASTOMER 80 SHORE

For high upper temperatures with broad chemical resistance. Developed for various semiconductor processes, very low extractable metal ions.

**COLOUR:** LIGHT GREY

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

PHYSICAL PROPERTIES	TEST METHOD	TEST RESULT
HARDNESS SHORE A	ASTM D2240	77
TENSILE STRENGTH, MPa	ASTM D412	20.4
ELONGATION, %	ASTM D412	237
MODULUS 100%	ASTM D412	6.2

COMPRESSION SET		
70 hrs @ 200°C %	ASTM D395/B	27

LOW TEMPERATURE FLEXIBILITY		
TR-10°C	ASTM D1329	-1

AIR AGEING, 70 hrs @ 300°C		
HARDNESS CHANGE, SHORE A	ASTM D573	-1
TENSILE STRENGTH CHANGE, %	ASTM D573	-12
ELONGATION CHANGE, %	ASTM D573	+15

HYDROGEN FLUORIDE, 49% IMMERSION, 720 hrs @ 23°C		
HARDNESS CHANGE, SHORE A	ASTM D471	0
TENSILE STRENGTH CHANGE, %	ASTM D471	+5
ELONGATION CHANGE, %	ASTM D471	-23
VOLUME CHANGE, %	ASTM D471	+0.3

AMMONIA, 28% IMMERSION, 168 hrs @ 100°C		
HARDNESS CHANGE, SHORE A	ASTM D471	-7
TENSILE STRENGTH CHANGE, %	ASTM D471	-15
ELONGATION CHANGE, %	ASTM D471	-18
VOLUME CHANGE, %	ASTM D471	+15

FLUID RESISTANCE OVERVIEW		
VOLUME CHANGE, %	ACIDS	<10
VOLUME CHANGE, %	ALKALIS	<20
VOLUME CHANGE, %	AMINES (RT)	<10
VOLUME CHANGE, %	KETONES	<10
VOLUME CHANGE, %	ESTERS	<10
VOLUME CHANGE, %	ETHERS	<10

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

**Issue Date: 02.04.2014**