

# Data Sheet: FFKM8704

## MATERIAL: PERFLUOROELASTOMER 80 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 RESULT	TEST METHOD
HARDNESS, SHORT A, PTS	80	ASTMD2240
TENSILE STRENGTH, MIN, MPa	21.6	ASTMD412
ELONGATION, MIN, %	135	ASTMD412
100% MODULUS, MPa	15.5	ASTMD412

### COMPRESSION SET

70 hrs @ 200°C MAX, %	21	ASTMD395/B
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### LOW TEMPERATURE FLEXIBILITY

TR-10	-2	ASTMD1329
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### AIR AGING: 70 hrs @ 230°C

CHANGE IN HARDNESS, MAX PTS	+1	ASTMD573
CHANGE IN TENSILE STRENGTH, %	-1	ASTMD573
CHANGE IN ELONGATION, %	+8	ASTMD573

### STEAM IMMERSION: 168 hrs @ 210°C

CHANGE IN HARDNESS, MAX PTS	0	ASTMD471
CHANGE IN TENSILE STRENGTH MAX, %	-19	ASTMD471
CHANGE IN ULTIMATE ELONGATION MAX, %	+38	ASTMD471
CHANGE IN VOLUME, %	+1	ASTMD471

### SULPHURIC ACID 98% IMMERSION: 72 hrs @ 60°C

CHANGE IN HARDNESS, MAX PTS	0	ASTMD471
CHANGE IN TENSILE STRENGTH MAX, %	-5	ASTMD471
CHANGE IN ULTIMATE ELONGATION MAX, %	-12	ASTMD471
CHANGE IN VOLUME, %	+0.1	ASTMD471

### AMMONIA, ANHYDROUS IMMERSION: 500 hrs @ 100°C

CHANGE IN HARDNESS MAX PTS	+6	ASTMD471
CHANGE IN TENSILE STRENGTH MAX, %	-7	ASTMD471
CHANGE IN ULTIMATE ELONGATION MAX, %	-6	ASTMD471
CHANGE IN VOLUME, %	+0.4	ASTMD471

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**PHYSICAL PROPERTIES****TEST RESULT****TEST METHOD****SOLVENT BLEND IMMERSION (1/3 MEK + TOLUENE + METHYLENE CHLORIDE: 336 hrs @ 23°C**

CHANGE IN HARDNESS, MAX PTS

-1

ASTMD471

CHANGE IN VOLUME, %

0

ASTMD471

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

**Issue Date: 10.11.2011**