

# Data Sheet: FFKM8706

## MATERIAL: PERFLUOROELASTOMER 90 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	92
TENSILE STRENGTH, MPa	ASTM D412	18
ELONGATION, %	ASTM D412	120
MODULUS 100%	ASTM D412	17
<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	-6
ELONGATION CHANGE, %	ASTM D573	+15
<b>STEAM IMMERSION, 168hrs @ 220°C</b>		
HARDNESS CHANGE, SHORE A	ASTM D471	0
TENSILE STRENGTH CHANGE, %	ASTM D471	-19
ELONGATION CHANGE, %	ASTM D471	+38
VOLUME CHANGE, %	ASTM D471	+1
<b>SULFURIC ACID 98% IMMERSION, 70hrs @ 60°C</b>		
HARDNESS CHANGE, SHORE A	ASTM D471	0
TENSILE STRENGTH CHANGE, %	ASTM D471	-5
ELONGATION CHANGE, %	ASTM D471	-12
VOLUME CHANGE, %	ASTM D471	+0.1
<b>AMMONIA, ANHYDROUS IMMERSION, 500hrs @ 100°C</b>		
HARDNESS CHANGE, SHORE A	ASTM D471	+6
TENSILE STRENGTH CHANGE, %	ASTM D471	-7
ELONGATION CHANGE, %	ASTM D471	-6
VOLUME CHANGE, %	ASTM D471	+0.4

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**PHYSICAL PROPERTIES****TEST METHOD****TEST RESULT****SOLVENT BLEND IMMERSION (1/3 MEK + TOLUENE + METHYLENE CHLORIDE)**

HARDNESS CHANGE, %

ASTM D471

-1

VOLUME CHANGE, %

ASTM D471

0

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

**Issue Date: 17.12.2014**