

Data Sheet: FFKM8727

MATERIAL: PERFLUOROELASTOMER 70 +/- 5 SHORE

Good mechanical properties, low particulate generation and low weight loss in plasmas. Specific cleaning and packaging in ultra-pure environment.

COLOUR: IVORY

GENERAL SERVICE TEMPERATURE RANGE: -5°C to 300°C continuous (320°C Peak)

PHYSICAL PROPERTIES	TEST METHOD	TEST RESULT
HARDNESS SHORE A	ASTM D2240	70
TENSILE STRENGTH, MPa	ASTM D412	17.3
ELONGATION, %	ASTM D412	235
MODULUS 100%	ASTM D412	5.7

COMPRESSION SET

70hrs @ 200°C %	ASTM D395/B	27
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LOW TEMPERATURE FLEXIBILITY

TR-10°C	ASTM D1329	+4
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HEAT AGEING, 70hrs @ 275°C

HARDNESS CHANGE, SHORE A	ASTM D573	-1
TENSILE STRENGTH CHANGE, %	ASTM D573	-1
ELONGATION CHANGE, %	ASTM D573	+20

NITRIC ACID 65%, 168hrs @ 80°C

HARDNESS CHANGE, SHORE A	ASTM D471	-9
TENSILE STRENGTH CHANGE, %	ASTM D471	-27
ELONGATION CHANGE, %	ASTM D471	+4
VOLUME CHANGE, %	ASTM D471	+9

HYDROFLUORIC ACID 49%, IMMERSION, 720hrs @ 70°C

HARDNESS CHANGE, SHORE A	ASTM D471	0
TENSILE STRENGTH CHANGE, %	ASTM D471	+5
ELONGATION CHANGE, %	ASTM D471	-23
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: 18.12.2013