

Data Sheet: FFKM3723 (was 8759)

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
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LOW TEMPERATURE FLEXIBILITY

TR-10°C	ASTM D1329	-1
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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