

Data Sheet: FFKM3706 (was 8749)

MATERIAL: PERFLUOROELASTOMER 60 +/-5 SHORE

Low sealing force applications in semiconductor thermal processes. Low outgassing properties at elevated temperatures.

COLOUR: WHITE

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

PHYSICAL PROPERTIES

	TEST METHOD	TEST RESULT
HARDNESS SHORE A	ASTM D2240	63
TENSILE STRENGTH, MPa	ASTM D412	19.1
ELONGATION, %	ASTM D412	240
MODULUS 100%	ASTM D412	3.2

COMPRESSION SET

70 hrs @ 200°C %	ASTM D395/B	25
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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	0
TENSILE STRENGTH CHANGE, %	ASTM D573	-15
ELONGATION CHANGE, %	ASTM D573	+48

FLUID RESISTANCE OVERVIEW

VOLUME CHANGE, %	ACIDS	<10
VOLUME CHANGE, %	KETONES	<10
VOLUME CHANGE, %	ESTERS	<10
VOLUME CHANGE, %	ETHERS	<10
VOLUME CHANGE, %	ALKALIS	<20
VOLUME CHANGE, %	AMINES (RT)	<10
VOLUME CHANGE, %	WATER AND STEAM	<10

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

Issue Date: 26.03.2014