

Data Sheet: FFKM3304 (was 8760)

MATERIAL: PERFLUOROELASTOMER 75 +/-5 SHORE

FFKM 75 ± 5 Shore A, beige, for very high temperatures and very aggressive chemicals
Developed for semiconductor industry and suitable for both wet and dry processes

Exceptional purity

Very good compression set even at high temperature

Temperature resistance from - 5 to + 300°C (+ 320° C / 3 000 hours)

COLOUR: BEIGE TRANSLUCENT

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

PHYSICAL PROPERTIES

	TEST METHOD	TEST RESULT
HARDNESS SHORE A	ASTM D2240	76
TENSILE STRENGTH, N/mm ²	ASTM D412	16.2
ELONGATION, %	ASTM D412	265
MODULUS 100%, N/mm ²	ASTM D412	4.8

COMPRESSION SET

70 hrs @ 200°C %	ASTM D395/B	17
70 hrs @ 300°C %	ASTM D395/B	32

LOW TEMPERATURE FLEXIBILITY

TR-10°C	ASTM D1329	1
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AIR AGEING, 70 hrs @ 275°C

HARDNESS CHANGE, SHORE A	ASTM D573	+1
TENSILE STRENGTH CHANGE, %	ASTM D573	0
ELONGATION CHANGE, %	ASTM D573	+7

GLACIAL ACETIC ACID IMMERSION, 336 hrs @ 100°C

HARDNESS CHANGE, SHORE A	ASTM D471	-11
TENSILE STRENGTH CHANGE, %	ASTM D471	-38
ELONGATION CHANGE, %	ASTM D471	-3
VOLUME CHANGE, %	ASTM D471	+7

HYDROCHLORIC ACID 37% IMMERSION, 70 hrs @ 80°C

HARDNESS CHANGE, SHORE A	ASTM D471	-1
TENSILE STRENGTH CHANGE, %	ASTM D471	-4
ELONGATION CHANGE, %	ASTM D471	-2
VOLUME CHANGE, %	ASTM D471	+1

FLUID RESISTANCE OVERVIEW

VOLUME CHANGE, %	ACIDS	<10
VOLUME CHANGE, %	KETONES	<10
VOLUME CHANGE, %	ESTERS	<10
VOLUME CHANGE, %	ETHERS	<10
VOLUME CHANGE, %	ALKALIS	<10

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

Issue Date: 17.12.2014