

Data Sheet: FFKM8760

MATERIAL: PERFLUOROELASTOMER 75 +/-5 SHORE

Developed for Semicon Industry and suitable for dry and wet applications. This is a high purity compound without filler. Outstanding resistance to aggressive chemicals and high temperature conditions.

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