

Data Sheet: FFKM8752

MATERIAL: PERFLUOROELASTOMER 75 +/-5 SHORE

Suitable for all semiconductor industry processes. Good mechanical properties and high purity. Extremely low outgassing properties.

COLOUR: TRANSLUCENT BROWN

GENERAL SERVICE TEMPERATURE RANGE: -10°C to +275°C continuous (+290°C Peak)

PHYSICAL PROPERTIES	TEST METHOD	TEST RESULT
HARDNESS SHORE A	ASTM D2240	76
TENSILE STRENGTH, MPa	ASTM D412	19.3
ELONGATION, %	ASTM D412	231
MODULUS 100%	ASTM D412	5.4

COMPRESSION SET		
70 hrs @ 200°C	ASTM D395/B	38

LOW TEMPERATURE FLEXIBILITY		
TR-10°C	ASTM D1329	-2

AIR AGEING, 70 hrs @ 275°C		
HARDNESS CHANGE, SHORE A	ASTM D573	+1
TENSILE STRENGTH CHANGE, %	ASTM D573	+1
ELONGATION CHANGE, %	ASTM D573	+32
MODULUS 100%	ASTM D573	+3

GLACIAL ACETIC ACID, 336 hrs @ 100°C		
HARDNESS CHANGE, SHORE A	ASTM D471	-9
TENSILE STRENGTH CHANGE, %	ASTM D471	-30
ELONGATION CHANGE, %	ASTM D471	-2
VOLUME CHANGE, %	ASTM D471	+5.9

HYDROCHLORIC ACID 37% IMMERSION, 70 hrs @ 80°C		
HARDNESS CHANGE, SHORE A	ASTM D471	-1
TENSILE STRENGTH CHANGE, %	ASTM D471	-3
ELONGATION CHANGE, %	ASTM D471	-2
VOLUME CHANGE, %	ASTM D471	+0.6

FLUID RESISTANCE OVERVIEW		
VOLUME CHANGE, %	ACIDS	<10
VOLUME CHANGE, %	KETONES	<10
VOLUME CHANGE, %	ALKALIS	<10
VOLUME CHANGE, %	ETHERS	<10
VOLUME CHANGE, %	ESTERS	<10

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

Issue Date: 15.01.2014