

Data Sheet: FFKM3502

was 8751

MATERIAL: PERFLUOROELASTOMER 65 +/-5 SHORE

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

COLOUR: TRANSLUCENT BROWN

GENERAL SERVICE TEMPERATURE RANGE: -20°C to +275°C continuous use (290°C Peak)

PHYSICAL PROPERTIES

	TEST METHOD	TEST RESULT
HARDNESS SHORE A	ASTM D2240	64
TENSILE STRENGTH, N/mm ²	ASTM D412	17.9
ELONGATION, %	ASTM D412	243
MODULUS 100%, N/mm ²	ASTM D412	3.8

COMPRESSION SET

70 hrs @ 200°C %	ASTM D395/B	22
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LOW TEMPERATURE FLEXIBILITY

TR-10°C	ASTM D1329	-2
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AIR AGEING, 70 hrs @ 275°C

HARDNESS CHANGE, SHORE A	ASTM D573	+2
TENSILE STRENGTH CHANGE, %	ASTM D573	+1
ELONGATION CHANGE, %	ASTM D573	+25
CHANGE IN 100% MODULUS	ASTM D573	+3

GLACIAL ACETIC ACID, 336 hrs @ 100°C

HARDNESS CHANGE, SHORE A	ASTM D471	-100
TENSILE STRENGTH CHANGE, %	ASTM D471	-34
ELONGATION CHANGE, %	ASTM D471	-3
VOLUME CHANGE, %	ASTM D471	+6.7

HYDROCHLORIC ACID, 37%, 70 hrs @ 80°C

HARDNESS CHANGE, SHORE A	ASTM D471	-1
TENSILE STRENGTH CHANGE, %	ASTM D471	-2
ELONGATION CHANGE, %	ASTM D471	-2
VOLUME CHANGE, %	ASTM D471	+0.7

FLUID RESISTANCE OVERVIEW

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

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

Issue Date: 14.04.2014