

Data Sheet: FFKM3421 (WAS 8703)

MATERIAL: PERFLUOROELASTOMER 80 SHORE

Developed for food and pharmaceutical processing, automated CIP and SIP systems and is FDA compliant to 21 CFR 177.2600.

Offers outstanding resistance to aggressive media.

COLOUR: BLACK

GENERAL SERVICE TEMPERATURE RANGE: -10°C to 230°C continuous (260°C Peak)

PHYSICAL PROPERTIES	TEST METHOD	TEST RESULT
HARDNESS SHORE A	ASTM D2240	81
TENSILE STRENGTH, MPa	ASTM D412	15
ELONGATION, %	ASTM D412	140
MODULUS 100%	ASTM D412	10
SPECIFIC DENSITY	ASTM D297	2.12

COMPRESSION SET

70 hrs @ 200°C %	ASTM D395/B	18
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LOW TEMPERATURE FLEXIBILITY

TR-10°C	ASTM D1329	-2
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AIR AGEING, 70hrs @ 225°C

HARDNESS CHANGE, SHORE A	ASTM D573	+1
TENSILE STRENGTH CHANGE %	ASTM D573	-6
ELONGATION CHANGE %	ASTM D573	+15

STEAM IMMERSION, 168 hrs @ 204°C

HARDNESS CHANGE, SHORE A	ASTM D471	+3
TENSILE STRENGTH CHANGE %	ASTM D471	-25
ELONGATION CHANGE %	ASTM D471	+17
VOLUME CHANGE %	ASTM D471	+2

HYDROCHLORIC ACID 37% IMMERSION, 72hrs @ 80°C

HARDNESS CHANGE, SHORE A	ASTM D471	-2
TENSILE STRENGTH CHANGE %	ASTM D471	+3
ELONGATION CHANGE %	ASTM D471	+8
VOLUME CHANGE %	ASTM D471	+2

SODIUM HYDROXIDE 40% IMMERSION, 72hrs @ 100°C

HARDNESS CHANGE SHORE A	ASTM D471	0
TENSILE STRENGTH CHANGE %	ASTM D471	+10
ELONGATION CHANGE %	ASTM D471	+4
VOLUME CHANGE %	ASTM D471	+0.6

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FLUID RESISTANCE OVERVIEW

VOLUME CHANGE %
VOLUME CHANGE %
VOLUME CHANGE %
VOLUME CHANGE %

TEST METHOD

ACIDS
KETONES
ESTERS
ALKALIS

TEST RESULT

<10
<10
<10
<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