

Data Sheet: FFKM3713

MATERIAL: PERFLUOROELASTOMER 70 SHORE

For high upper temperatures with broad chemical resistance. Developed for food and pharmaceutical processing, Automated CIP and SIP systems in accordance with USP Class VI and FDA 21 CFR 177.2600 requirements.

COLOUR: WHITE

GENERAL SERVICE TEMPERATURE RANGE: -5°C to + 300°C (+330°C/1000 hours)

PHYSICAL PROPERTIES	TEST METHOD	TEST RESULT
HARDNESS SHORE A	ASTM D2240	71
TENSILE STRENGTH, MPa	ASTM D412	15.8
ELONGATION, %	ASTM D412	276
MODULUS 100%	ASTM D412	5.9

COMPRESSION SET

70 hrs @ 200°C %	ASTM D395/B	20
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LOW TEMPERATURE FLEXIBILITY

TR-10°C	ASTM D1329	+4
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HEAT AGEING, 70 hrs @ 275°C

HARDNESS CHANGE, SHORE A	ASTM D573	-1
TENSILE STRENGTH CHANGE, %	ASTM D573	-1
ELONGATION CHANGE, %	ASTM D573	+20

STEAM AGEING, 168 hrs @ 220°C

HARDNESS CHANGE SHORE A	ASTM D471	-2
TENSILE STRENGTH CHANGE %	ASTM D471	-9
ELONGATION CHANGE %	ASTM D471	+5
VOLUME CAHNGE %	ASTM D471	+2.2

NITRIC ACID 65% IMMERSION, 168 hrs @ 80°C

HARDNESS CHANGE, SHORE A	ASTM D471	-10
TENSILE STRENGTH CHANGE, %	ASTM D471	-30
ELONGATION CHANGE, %	ASTM D471	+5
VOLUME CHANGE, %	ASTM D471	+10

POTASSIUM HYDROXIDE, 50% IMMERSION, 168 hrs @ 20°C

HARDNESS CHANGE, SHORE A	ASTM D471	-2
TENSILE STRENGTH CHANGE, %	ASTM D471	-10
ELONGATION CHANGE, %	ASTM D471	-15
VOLUME CHANGE, %	ASTM D471	+0.4

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

Issue Date: 22.06.2016