

Data Sheet: FFKM3404

MATERIAL: PERFLUOROELASTOMER 70 SHORE

Outstanding resistance to aggressive media. Developed for food and pharmaceutical processing, automated CIP and SIP systems.

In accordance with USP Class VI and FDA 21 CFR 177.2600 requirements. CE 1935/2004 approval in progress

COLOUR: WHITE

GENERAL SERVICE TEMPERATURE RANGE: -10°C to 230°C continuous (260°C / 1000 hours)

PHYSICAL PROPERTIES	TEST METHOD	REQUIREMENT	TEST RESULT
HARDNESS, SHORE A	ISO 868	70± 5	72
100% MODULUS, MPa	ISO 37		7,2
TENSILE STRENGTH, MPa	ISO 37		13,8
ULTIMATE ELONGATION, %	ISO 37		178
SPECIFIC GRAVITY, g/cm ³	ISO 2781	± 0,02	2,4
LOW TEMPERATURE FLEXIBILITY			
TR-10°C	ASTM D1329		-2
AIR AGEING, 70 hrs @ 225°C			
HARDNESS CHANGE, SHORE A	ASTM D573		+1
TENSILE STRENGTH CHANGE, %	ASTM D573		-5
ELONGATION CHANGE, %	ASTM D573		+14
SATURATED 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		+1
HYDROCHLORIC ACID 37% IMMERSION, 72 hrs @ 80°C			
HARDNESS CHANGE, SHORE A	ASTM D471		-2
TENSILE STRENGTH CHANGE, %	ASTM D471		+3
ELONGATION CHANGE, %	ASTM D471		+8
VOLUME CHANGE, %	ASTM D471		+0.6
SODIUM HYDROXIDE 40% IMMERSION, 72 hrs @ 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, %	ACIDS	<10
VOLUME CHANGE, %	KETONES	<10
VOLUME CHANGE, %	ESTERS	<10
VOLUME CHANGE, %	ALKALIS	<10

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

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