

# Data Sheet: FFKM8703

## 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
<b>COMPRESSION SET</b>		
70 hrs @ 200°C %	ASTM D395/B	18
<b>LOW TEMPERATURE FLEXIBILITY</b>		
TR-10°C	ASTM D1329	-2
<b>AIR AGEING, 70hrs @ 225°C</b>		
HARDNESS CHANGE, SHORE A	ASTM D573	+1
TENSILE STRENGTH CHANGE %	ASTM D573	-6
ELONGATION CHANGE %	ASTM D573	+15
<b>STEAM IMMERSION, 168 hrs @ 204°C</b>		
HARDNESS CHANGE, SHORE A	ASTM D471	+3
TENSILE STRENGTH CHANGE %	ASTM D471	-25
ELONGATION CHANGE %	ASTM D471	+17
VOLUME CHANGE %	ASTM D471	+2
<b>HYDROCHLORIC ACID 37% IMMERSION, 72hrs @ 80°C</b>		
HARDNESS CHANGE, SHORE A	ASTM D471	-2
TENSILE STRENGTH CHANGE %	ASTM D471	+3
ELONGATION CHANGE %	ASTM D471	+8
VOLUME CHANGE %	ASTM D471	+2
<b>SODIUM HYDROXIDE 40% IMMERSION, 72hrs @ 100°C</b>		
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.*

**Issue Date: 17.12.2014**