

# Data Sheet: FFKM8733

## MATERIAL: PERFLUOROELASTOMER 80 SHORE

An upper chemical resistant material, developed for very demanding sealing applications. Hydrofluoric acid resistant.

**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	83
TENSILE STRENGTH, N/mm <sup>2</sup>	ASTM D412	20.6
ELONGATION, %	ASTM D412	156
MODULUS 100%, N/mm <sup>2</sup>	ASTM D412	13
<b>COMPRESSION SET</b>		
70 hrs @ 200°C %	ASTM D395/B	23
<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	+5
ELONGATION CHANGE, %	ASTM D573	+29
<b>HYDROFLUORIC ACID 49 &amp; IMMERSION, 720 hrs @ 23°C</b>		
HARDNESS CHANGE, SHORE A	ASTM D471	0
TENSILE STRENGTH CHANGE, %	ASTM D471	-5
ELONGATION CHANGE, %	ASTM D471	-21
VOLUME CHANGE, %	ASTM D471	+1.2
<b>ETHYLENEDIAMINE IMMERSION, 72 hrs @ 100°C</b>		
HARDNESS CHANGE, SHORE A	ASTM D471	-4
TENSILE STRENGTH CHANGE, %	ASTM D471	-35
ELONGATION CHANGE, %	ASTM D471	+13
VOLUME CHANGE, %	ASTM D471	+6.5
<b>N-METHYL DIETHANOLAMINE, 168 hrs @ 150°C</b>		
HARDNESS CHANGE, SHORE A	ASTM D471	-2
TENSILE STRENGTH CHANGE, %	ASTM D471	-22
ELONGATION CHANGE, %	ASTM D471	-2
VOLUME CHANGE, %	ASTM D471	+2

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## FLUID RESISTANCE OVERVIEW

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