

# Data Sheet: FFKM8748

## MATERIAL: PERFLUOROELASTOMER 70 SHORE

Specific compound for Quad Ring / X Rings. Developed for food and pharmaceutical processing, automated CIP and SIP systems. In accordance with FDA 21 CFR 177.2600 requirements.

**COLOUR:** WHITE

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

PHYSICAL PROPERTIES	REQUIREMENT	TEST RESULT
HARDNESS, SHORE A	70	ASTMD2240
TENSILE STRENGTH, MIN, MPa	15.9	ASTMD412
ELONGATION, MIN, %	263	ASTMD412
100% MODULUS, MPa	6.3	ASTMD412
<b>PERMANENT SET</b>		
70 hrs @ 200°C MAX, %	18	ASTMD395/B
<b>LOW TEMPERATURE FLEXIBILITY</b>		
TR-10	-2	ASTMD1329
<b>AIR AGING: 70 hrs @ 250°C</b>		
CHANGE IN HARDNESS, MAX PTS	-1	ASTMD573
CHANGE IN TENSILE STRENGTH, %	-1	ASTMD573
CHANGE IN ELONGATION, %	+7	ASTMD573
<b>STEAM AGEING: 168 hrs @ 220°C</b>		
CHANGE IN HARDNESS, MAX PTS	-2	ASTMD471
CHANGE IN TENSILE STRENGTH, MAX, %	-9	ASTMD471
CHANGE IN ULTIMATE ELONGATION, MAX, %	+5	ASTMD471
CHANGE IN VOLUME, %	+2.2	ASTMD471
<b>NITRIC ACID 65% IMMERSION: 168 hrs @ 80°C</b>		
CHANGE IN HARDNESS, MAX PTS	-10	ASTMD471
CHANGE IN TENSILE STRENGTH, MAX, %	-30	ASTMD471
CHANGE IN ULTIMATE ELONGATION, MAX, %	+5	ASTMD471
CHANGE IN VOLUME, %	+10	ASTMD471
<b>POTASSIUM HYDROXIDE 50% IMMERSION: 168 hrs @ 20°C</b>		
CHANGE IN HARDNESS, MAX PTS	-2	ASTMD471
CHANGE IN TENSILE STRENGTH, MAX, %	-10	ASTMD471
CHANGE IN ULTIMATE ELONGATION, MAX, %	-15	ASTMD471
CHANGE IN VOLUME, %	+0.4	ASTMD471

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

**Issue Date: 26.03.2014**