

# Data Sheet: FFKM8705

## MATERIAL: PERFLUOROELASTOMER 75 SHORE

High chemical resistance, particularly in hydrofluoric acid (HF). Optimum performance in photovoltaic (PV) processing environments. Low particle generation.

**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	79
TENSILE STRENGTH, MPa	ASTM D412	20.8
ELONGATION, %	ASTM D412	138
MODULUS 100%,	ASTM D412	15.6
<b>COMPRESSION SET 70hrs @ 200°C %</b>	ASTM D395/B	19
<b>LOW TEMPERATURE FLEXIBILITY</b>		
TR-10°C	ASTM D1329	-2
<b>AIR AGEING, 70hrs @ 225°C</b>		
HARDNESS CHANGE, SHORE A	ASTM D573	0
TENSILE STRENGTH CHANGE, %	ASTM D573	0
ELONGATION CHANGE, %	ASTM D573	+18
<b>STEAM IMMERSION, 168hrs @ 210°C</b>		
HARDNESS CHANGE, SHORE A	ASTM D471	+1
TENSILE STRENGTH CHANGE, %	ASTM D471	-20
ELONGATION CHANGE, %	ASTM D471	+16
VOLUME CHANGE, %	ASTM D471	0
<b>HYDROFLUORIC ACID 50% IMMERSION, 168hrs @ 80°C</b>		
HARDNESS CHANGE, SHORE A	ASTM D471	-2
TENSILE STRENGTH CHANGE, %	ASTM D471	-1
ELONGATION CHANGE, %	ASTM D471	+4
VOLUME CHANGE, %	ASTM D471	+0.6
<b>SODIUM HYDROXIDE 40% IMMERSION, 72hrs @ 100°C</b>		
HARDNESS CHANGE, SHORE A	ASTM D471	-2
TENSILE STRENGTH CHANGE, %	ASTM D471	+11
ELONGATION CHANGE, %	ASTM D471	+4
VOLUME CHANGE, %	ASTM D471	+0.6

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

**Issue Date: 10.11.2011**