

Data Sheet: FFKM3428

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

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