Data Sheet: FFKM8720

MATERIAL: PERFLUOROELASTOMER 75 SHORE

High chemical resistance, in particular to oilfield fluid. Good sealing performance when operating conditions change during the process lifetime. Very low temperature capability.

COLOUR: BLACK

GENERAL SERVICE TEMPERATURE RANGE: -40°C to 230°C continuous (+260°C Peak)

PHYSICAL PROPERTIES	TEST METHOD	TEST RESULT
HARDNESS SHORE A	ASTM D2240	77
TENSILE STRENGTH, MPa	ASTM D412	17.4
ELONGATION, %	ASTM D412	249
MODULUS 100%	ASTM D412	4.8
COMPRESSION SET		
70 hrs @ 200°C %	ASTM D395/B	28
LOW TEMPERATURE FLEXIBILITY		
TR-10°C	ASTM D1329	-30
TG (GLASS TRANSITION)	ASTM 3418	-32
AIR AGEING, 70hrs @ 225°C		
HARDNESS CHANGE, SHORE A	ASTM D573	+1
TENSILE STRENGTH CHANGE %	ASTM D573	+11
ELONGATION CHANGE %	ASTM D573	-1
MODULUS CHANGE %	ASTM D573	+24
STEAM IMMERSION, 168hrs @ 220°C		
HARDNESS CHANGE, SHORE A	ASTM D471	-2
TENSILE STRENGTH CHANGE %	ASTM D471	-23
ELONGATION CHANGE %	ASTM D471	+35
VOLUME CHANGE %	ASTM D471	+0.7
METHANOL IMMERSION, 168hrs @ 23°C		
HARDNESS CHANGE, SHORE A	ASTM D471	-1
TENSILE STRENGTH CHANGE %	ASTM D471	-9
ELONGATION CHANGE %	ASTM D471	+7
VOLUME CHANGE %	ASTM D471	+0.9
AMMONIA 28% IMMERSION, 336hrs @ 100°C		
HARDNESS CHANGE, SHORE A	ASTM D471	-4
TENSILE STRENGTH CHANGE %	ASTM D471	-16
ELONGATION CHANGE %	ASTM D471	-4
VOLUME CHANGE %	ASTM D471	+8.5

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

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