

Data Sheet: FKM70

MATERIAL: FLUOROCARBON 70 SHORE

COLOUR: BLACK

GENERAL SERVICE TEMPERATURE RANGE: -20°C to 205°C

SPECIFICATION: ASTM D2000 M2HK710A1-10A1-11B37B38EF31EO78E088Z:TS:12MPa

PHYSICAL PROPERTIES	TEST METHOD	REQUIREMENT	TEST RESULT
HARDNESS, SHORE-A		70 +/- 5	74
Z: TENSILE STRENGTH, MIN, MPa		12	13.87
ELONGATION, MIN, %		175	216
TEAR RESISTANCE, Kg/cm	ASTM D624 (DIE C)		29
SPECIFIC GRAVITY			1.863
A1-10 HEAT RESISTANCE, 70 hrs @ 250°C			
HARDNESS CHANGE, MAX, POINTS	ASTM D573	+10	+2
TENSILE STRENGTH CHANGE, MAX, %	ASTM D573	-25	-7
ELONGATION CHANGE, MAX, %	ASTM D573	-25	0
VOLUME CHANGE, %	ASTM D573		-3.7
A1-11 HEAT RESISTANCE, 70 hrs @ 275°C			
HARDNESS CHANGE, MAX, POINTS	ASTM D573		+2
TENSILE STRENGTH CHANGE, MAX, %	ASTM D573		-30
ELONGATION CHANGE, MAX, %	ASTM D573		+17
VOLUME CHANGE, %	ASTM D573		-7.4
COMPRESSION SET			
22 hrs @ 175°C, METHOD B, MAX, % (SLAB)	ASTM D395	50	11
22 hrs @ 200°C, METHOD B, MAX, % (SLAB)	ASTM D395	50	19
EF31 FUEL C RESISTANCE, 70 hrs @ 23°C			
HARDNESS CHANGE, POINTS	ASTM D471	+/-5	-3
TENSILE STRENGTH CHANGE, MAX, %	ASTM D471	-25	-7
ELONGATION CHANGE, MAX, %	ASTM D471	-20	+4
VOLUME CHANGE, %	ASTM D471	0 ~ +10	+3.2
EO78 FLUID RESISTANCE, 101 OIL, 70 hrs @ 200°C			
HARDNESS CHANGE, POINTS	ASTM D471	-15 ~ +5	-8
TENSILE STRENGTH CHANGE, MAX, %	ASTM D471	-40	-20
ELONGATION CHANGE, MAX, %	ASTM D471	-20	-4
VOLUME CHANGE, %	ASTM D471	0 ~ +15	+11.7
EO88 FLUID RESISTANCE, 7700 OIL, 70 hrs @ 200°C			
HARDNESS CHANGE, POINTS	ASTM D471		-10
TENSILE STRENGTH CHANGE, MAX, %	ASTM D471		-15
ELONGATION CHANGE, MAX, %	ASTM D471		-3
VOLUME CHANGE, %	ASTM D471		+16.6

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PHYSICAL PROPERTIES	TEST METHOD	REQUIREMENT	TEST RESULT
F LOW TEMPERATURE TEST 3 MIN @ -19°C CRACK	ASTM D2137 METHOD C	NO CRACK	NO
TR10 LOW TEMP RESISTANCE	ASTM D1329	$\leq -15^{\circ}\text{C}$	-17.2°C

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

Issue Date: 22.05.2023