

Data Sheet: FKM60

MATERIAL: FLUOROCARBON 60 SHORE

COLOUR: BLACK

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

SPECIFICATION: ASTM D2000 M2HK607A1-10B37B38C12EO78

PHYSICAL PROPERTIES	TEST METHOD	REQUIREMENT	TEST RESULT
HARDNESS, SHOREA		60 +/- 5	59
HARDNESS, IRHD			54
TENSILE STRENGTH, MIN, MPa (PSI)		7 (1015)	10.67 (1548)
ELONGATION, MIN, %		200	268
TEAR RESISTANCE, Kg/cm	ASTM D624 (DIE C)		22
MODULUS AT 100%, MPa (PSI)	ASTM D412		2.27 (330)
MODULUS AT 200%, MPa (PSI)	ASTM D412		6.55 (950)
SPECIFIC GRAVITY			1.848
A1-10 HEAT RESISTANCE, 70 hrs @ 250°C			
HARDNESS CHANGE, MAX, PTS	ASTM D573	+10	+2
TENSILE STRENGTH CHANGE, MAX, %	ASTM D573	-25	+19
ELONGATION CHANGE, MAX, %	ASTM D573	- 25	+14
VOLUME CHANGE, %	ASTM D573		-2
HEAT RESISTANCE, 70 hrs @ 275°C			
HARDNESS CHANGE, MAX, PTS	ASTM D573		+3
TENSILE STRENGTH CHANGE, MAX, %	ASTM D573		-6
ELONGATION CHANGE, MAX, %	ASTM D573		+9
VOLUME CHANGE, %	ASTM D573		-6.1
B37 COMPRESSION SET			
22 hrs @ 175°C, METHOD B, MAX, %	ASTM D395	50	7
B38 COMPRESSION SET			
22 hrs @ 200°C, METHOD B, MAX, %	ASTM D395	50	12
C12 RESISTANCE TO OZONE			
50 PPHM, 40°C, 70 hrs, 20% EB	ASTM D1171	NO CRACKS	PASS
FLUID RESISTANCE, FUEL C, 70 hrs @ 23°C			
HARDNESS CHANGE, PTS	ASTM D471		-5
TENSILE STRENGTH CHANGE, MAX, %	ASTM D471		-35
ELONGATION CHANGE, MAX, %	ASTM D471		-19
VOLUME CHANGE, %	ASTM D471		+6.1

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PHYSICAL PROPERTIES	TEST METHOD	REQUIREMENT	TEST RESULT
EO78 FLUID RESISTANCE, 101 OIL, 70 hrs @ 200°C			
HARDNESS CHANGE, PTS	ASTM D471	-15 ~ +5	-7
TENSILE STRENGTH CHANGE, MAX, %	ASTM D471	-40	-7
ELONGATION CHANGE, MAX, %	ASTM D471	-20	+2
VOLUME CHANGE, %	ASTM D471	0 ~ +15	+11.5
EO FLUID RESISTANCE, 7700 OIL, 70 hrs @ 200°C			
HARDNESS CHANGE, PTS	ASTM D471		-11
TENSILE STRENGTH CHANGE, MAX, %	ASTM D471		-20
ELONGATION CHANGE, MAX, %	ASTM D471		-9
VOLUME CHANGE, %	ASTM D471		+20.2
LOW TEMPERATURE RESISTANCE			
TR-10, °C	ASTM D1329		-15.9

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

Issue Date: 22.05.2023