

Data Sheet: F70

MATERIAL: FLUOROSILICONE 70 SHORE

COLOUR: BLUE

GENERAL SERVICE TEMPERATURE RANGE: -55°C to +205°C

SPECIFICATION: ASTM D2000 M2FK706 A19 EF31 EO36 F19

PHYSICAL PROPERTIES	REQUIREMENT	TEST RESULT
HARDNESS SHORE A	70+/-5	73
TENSILE STRENGTH, MPa	6.0	7.1
ELONGATION, %	150	210
SPECIFIC GRAVITY		1.457

HEAT AGEING 70 hrs @ 225°C

HARDNESS CHANGE, POINTS	-5~+10	+4
TENSILE STRENGTH CHANGE, %	-45	-32
ELONGATION CHANGE, %	-45	-38

COMPRESSION SET

22 hrs @ 175°C, %		19
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FLUID RESISTANCE, FUEL C 70 hrs @ 23°C

HARDNESS CHANGE, POINTS	0~-15	0
TENSILE STRENGTH CHANGE, %	-60	-10
ELONGATION CHANGE, %	-50	-2
VOLUME CHANGE, %	0~+25	+22

FLUID RESISTANCE, NO.1 Oil 70 hrs @ 150°C

HARDNESS CHANGE, POINTS		+0
TENSILE STRENGTH CHANGE, %		+7
ELONGATION CHANGE, %		-2
VOLUME CHANGE, %		+5

FLUID RESISTANCE, NO.3 OIL 70 hrs @ 150°C

HARDNESS CHANGE, POINTS	0~-10	-7
TENSILE STRENGTH CHANGE, %	-35	-29
ELONGATION CHANGE, %	-30	-28
VOLUME CHANGE, %	0~+25	+6

LOW TEMPERATURE RESISTANCE

3 MIN @ -55°C	NON-BRITTLE	PASS
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The above test results are based on test slabs / buttons. The results from the actual parts may be different.

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Issue Date: 16.01.2013