

Data Sheet: F70

MATERIAL: FLUOROSILICONE 70 SHORE

COLOUR: BLUE

GENERAL SERVICE TEMPERATURE RANGE: -60°C to +177°C

SPECIFICATION: M2FK606A19C12 EF31 EO36 F19 Z1:70+/-5 DURO
This compound meets MIL-R-25988 CLASS 1 GRADE 70

PHYSICAL PROPERTIES	REQUIREMENT	TEST RESULT
HARDNESS SHORE A	70+/-5	69
TENSILE STRENGTH, psi TS	≥870	1276
ELONGATION %	≥150	260
SPECIFIC GRAVITY	1.51 ±0.02	1.51
HEAT AGEING @ 70 hrs @ 225°C		
HARDNESS CHANGE, POINTS	+15	+4
TENSILE STRENGTH CHANGE %	-45	-26.88
ELONGATION CHANGE %	-45	-22.31
COMPRESSION SET		
22 hrs @ 175°C %		12.78
FLUID RESISTANCE, No.1 Oil 70 hrs @ 23°C		
HARDNESS CHANGE, POINTS	0/-5	-3
TENSILE STRENGTH CHANGE %	-60	-33.78
ELONGATION CHANGE %	-50	-29.62
VOLUME CHANGE %	0/+25	+21.47
FLUID RESISTANCE, No.3 OIL 70 hrs @ 150°C		
HARDNESS CHANGE POINTS	0/-10	-6
TENSILE STRENGTH CHANGE %	-35	-20.22
ELONGATION CHANGE %	-30	-16.92
VOLUME CHANGE %	0/+10	+4.50

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

Issue Date: 27.05.2011