

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-DTL-25988C
(OLD REF MIL-R-25988B, TYPE1, CLASS1, GRADE 70)

PHYSICAL PROPERTIES	TEST METHOD	REQUIREMENT	TEST RESULT
HARDNESS SHORE A	ASTM D2240	70+/-5	69
TENSILE STRENGTH, psi TS	ASTM D412	≥870	1276
ELONGATION %	ASTM D412	≥150	260
SPECIFIC GRAVITY	ASTM DD297	1.51 ±0.02	1.51
HEAT AGEING @ 70 hrs @ 225°C			
HARDNESS CHANGE, POINTS	ASTM D573	+15	+4
TENSILE STRENGTH CHANGE %	ASTM D573	-45	-26.88
ELONGATION CHANGE %	ASTM D573	-45	-22.31
COMPRESSION SET			
22 hrs @ 175°C %	ASTM D395		12.78
FLUID RESISTANCE, No.1 Oil 70 hrs @ 23°C			
HARDNESS CHANGE, POINTS	ASTM D471	0/-5	-3
TENSILE STRENGTH CHANGE %	ASTM D471	-60	-33.78
ELONGATION CHANGE %	ASTM D471	-50	-29.62
VOLUME CHANGE %	ASTM D471	0/+25	+21.47
FLUID RESISTANCE, No.3 OIL 70 hrs @ 150°C			
HARDNESS CHANGE POINTS	ASTM D471	0/-10	-6
TENSILE STRENGTH CHANGE %	ASTM D471	-35	-20.22
ELONGATION CHANGE %	ASTM D471	-30	-16.92
VOLUME CHANGE %	ASTM D471	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