

# Data Sheet: F80

## MATERIAL: FLUOROSILICONE 80 SHORE

COLOUR: BLUE

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

SPECIFICATION: ASTM D2000 M2FK806 A19 EF31 EO36 F19

PHYSICAL PROPERTIES	REQUIREMENT	TEST RESULT
HARDNESS SHORE A	80+/-5	82
TENSILE STRENGTH, MPa	6.0	7.1
ELONGATION %	150	151
SPECIFIC GRAVITY		1.558

### HEAT AGEING 70 hrs @ 225°C

HARDNESS CHANGE, POINTS	+15	+1
TENSILE STRENGTH CHANGE %	-45	-30
ELONGATION CHANGE %	-45	-35

### COMPRESSION SET

22 hrs @ 175°C %	--	21
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### FLUID RESISTANCE, NO.3 OIL, 70 hrs @ 150°C

HARDNESS CHANGE POINTS	0~-10	-5
TENSILE STRENGTH CHANGE %	-35	-28
ELONGATION CHANGE %	-30	-28
VOLUME CHANGE %	0~+25	+0

### FUEL RESISTANCE, TT-S-735 TYPE 111, 22 hrs @ 22°C

HARDNESS CHANGE, POINTS	0~-15	-6
TENSILE STRENGTH CHANGE %	-60	-20
ELONGATION CHANGE %	-50	-17
VOLUME CHANGE %	0~+25	+10

### 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.*

Issue Date: 19.06.2012