

Data Sheet: S50 FDA

MATERIAL: SILICONE 50 SHORE FDA (COMPLIANT TO CFR 21 177-2600)

COLOUR: RED

GENERAL SERVICE TEMPERATURE RANGE: -55°C to 225°C

SPECIFICATION: M4GE505A19B37EO16EO36

PHYSICAL PROPERTIES	TEST METHOD	REQUIREMENT	TEST RESULT
HARDNESS SHORE A		50+/-5	53
TENSILE STRENGTH, psi		725	1313
ELONGATION %		250	487
HEAT AGEING 70 hrs @ 225°C			
HARDNESS CHANGE, POINTS		+10	+2
TENSILE STRENGTH CHANGE %		-30	-23.84
ELONGATION CHANGE %		-30	-28.95
COMPRESSION SET			
22 hrs @ 175°C %	ASTM D395	50	14.02
FLUID RESISTANCE, NO.1 OIL, 70 hrs @ 150°C			
HARDNESS CHANGE, POINTS	ASTM D471	0/-15	-6
TENSILE STRENGTH CHANGE %	ASTM D471	-20	+4.49
ELONGATION CHANGE %	ASTM D471	-20	-8.21
VOLUME CHANGE %	ASTM D471	0/+15	+5.43
FLUID RESISTANCE, NO.3 OIL, 70 hrs @ 150°C			
HARDNESS CHANGE, POINTS	ASTM D471	-35	-23
TENSILE STRENGTH CHANGE %	ASTM D471		-31.07
ELONGATION CHANGE %	ASTM D471		-31.01
VOLUME CHANGE %	ASTM D471	+60	+45.14

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

Issue Date: 27.05.2011