

Data Sheet: S70 FDA

MATERIAL: SILICONE 70 SHORE FDA (COMPLIANT TO CFR 21 177-2600)

COLOUR: RED

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

SPECIFICATION: ASTM D2000-M7GE705 A19 B37 EA14 EO16 EO36 F19

PHYSICAL PROPERTIES	TEST METHOD	REQUIREMENT	TEST RESULT
HARDNESS SHORE A	ASTM D2240	70+/-5	69
TENSILE STRENGTH, psi	ASTM D412	725	886
ELONGATION, %	ASTM D412	150	197
HEAT AGEING 70 hrs @ 225°C			
HARDNESS CHANGE, POINTS	ASTM D573	+10	+3
TENSILE STRENGTH CHANGE, %	ASTM D573	-25	+0.23
ELONGATION CHANGE, %	ASTM D573	-30	-27.41
COMPRESSION SET			
22 hrs @ 175°C, %	ASTM D395	30	17.65
FLUID RESISTANCE, No.1 Oil, 70 hrs @ 150°C			
HARDNESS CHANGE, POINTS	ASTM D412	0/-15	-1
TENSILE STRENGTH CHANGE, %	ASTM D412	-20	-0.23
ELONGATION CHANGE, %	ASTM D412	-20	-8.12
VOLUME CHANGE, %	ASTM D412	0/+15	+5.51
FLUID RESISTANCE, No.3.OIL 70 hrs @ 150°C			
HARDNESS CHANGE, POINTS	ASTM D412	-40	-14
VOLUME CHANGE, %	ASTM D412	+60	+35.71
WATER RESISTANCE, 70 hrs @ 100°C			
HARDNESS CHANGE, POINTS	ASTM D471	+/-5	+1
VOLUME CHANGE, %	ASTM D471	+/-5	+1.45

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

Issue Date: 17.03.2016