

Data Sheet: S70 Red FDA

MATERIAL: SILICONE 70 SHORE – FDA COMPLIANT TO CFR 21 177-2600 & EC1935/2004

COLOUR: RED

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

PHYSICAL PROPERTIES	TEST METHOD	TEST RESULT
HARDNESS, SHORE A, PTS	ASTM D 1415	70 +/-5
TENSILE STRENGTH, MIN, MPa	ASTM D 412	7.9
ELONGATION, MIN, %	ASTM D 412	178
SPECIFIC GRAVITY, g/cm ³	ASTM D 297	1.38±0.03

COMPRESSION SET

22 hrs @ 175°C MAX, %	ASTM D 395/B	14
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AIR AGING, 70 hrs @ 225°C

CHANGE IN HARDNESS, MAX PTS	ASTM D 573	+4
CHANGE IN TENSILE STRENGTH, %	ASTM D 573	-11
CHANGE IN ELONGATION, %	ASTM D 573	-26

FLUID RESISTANCE, OIL #1, 70 hrs @ 150°C

CHANGE IN HARDNESS, MAX PTS	ASTM D 471	-6
CHANGE IN TENSILE STRENGTH, %	ASTM D 471	+4
CHANGE IN ELONGATION, %	ASTM D 471	-12
CHANGE IN VOLUME, %	ASTM D 471	+7

FLUID RESISTANCE, OIL #3, 70 hrs @ 150°C

CHANGE IN HARDNESS, MAX PTS	ASTM D 471	-12
CHANGE IN VOLUME, %	ASTM D 471	+35

PHYSICAL PROPERTIES	TEST METHOD	TEST RESULT
LOW TEMPERATURE RESISTANCE		
TR10	ASTM1329	-42
NON BRITTLE AFTER 3 MINS @ -55°C	ASTM D 2137 A	PASS

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