

Data Sheet: S70 FDA

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

COLOUR: WHITE

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

SPECIFICATION: ASTM D2000-M5GE706 A19 B37 EO16 EO36G11 F19

PHYSICAL PROPERTIES	TEST METHOD	REQUIREMENT	TEST RESULT
HARDNESS, SHORE A	ASTM D2240	70±5	73
TENSILE STRENGTH, MIN, psi	ASTM D412	870	1115
ELONGATION, MIN, %	ASTM D412	150	274
TEAR RESISTANCE, MIN, KN/m	ASTM D624	9	19.44
COMPRESSION SET			
22 hrs @ 175°C	ASTM D395	25	13.57
HEAT RESISTANCE, 70 hrs @ 225°C			
HARDNESS CHANGE, MAX, PTS	ASTM D573	10	3
TENSILE STRENGTH CHANGE, MAX, %	ASTM D573	-25	-15.07
ULTIMATE ELONGATION CHANGE, MAX, %	ASTM D573	-30	-16.79
FLUID RESISTANCE, No. 1 Oil, 70 hrs @ 150°C			
Change in Hardness, Max, pts	ASTM D471	0 to -15	-3
Change in Tensile Strength, Max, %	ASTM D471	-20	-11.48
Change in Ultimate Elongation, Max, %	ASTM D471	-20	-15.69
Change in volume, %	ASTM D471	0 to +10	4.38
FLUID RESISTANCE, No. 3 Oil: 70 hrs @ 150°C			
Change in Hardness, Max, pts	ASTM D412	-30	-20
Change in volume, %	ASTM D412	60	36.24

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

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