

**Electrical**

DIELECTRIC STRENGTH	> 1 MIN AT 500 VRMS
ESD BREAKDOWN <sup>1</sup>	20 KV/MM
CONTACT BOUNCE	< 5 MS
CONTACT RESISTANCE <sup>2</sup>	< 200 OHMS

**Mechanical**

TRAVEL <sup>3</sup>	.032" - .060", 0.8 - 1.5 MM
FORCE <sup>4</sup>	60 - 300 GRAMS
LIFE CYCLES	1 MILLION MIN.

**Environmental**

OPERATING TEMPERATURE	-40°C TO +150°C
STORAGE TEMPERATURE	-50°C TO +175°C

**Physical Properties of Silicone Rubber**

Typical Physical Property	Conductor	Insulator
SPECIFIC GRAVITY AT 25°C	1.18	1.17
DUROMETER HARDNESS (SHORE A) <sup>5</sup>	65 ±5	30-80 ±5
TENSILE STRENGTH (kg/cm <sup>2</sup> )	> 50	> 70
ELONGATION (%)	> 100	> 250
TEAR STRENGTH (kg/cm)	> 9	> 12
LINEAR SHRINKAGE (%)	3-5	3-4.5
VOLUME RESISTIVITY (ohm-cm)	< 5	1 X 10 <sup>15</sup>

**Dimensional Tolerances**

Dimension Size		Tolerance ±	
Inches	Millimeters	Inches	Millimeters
0.000 - 0.987	0.000 - 25.070	.005	0.127
0.988 - 1.460	25.071 - 37.084	.008	0.203
1.461 - 1.971	37.085 - 50.063	.010	0.254
1.972 - 2.444	50.064 - 62.078	.012	0.305
2.445 - 2.956	62.079 - 75.082	.015	0.381
2.957 - 3.428	75.083 - 87.071	.017	0.432
3.429 - 3.940	87.072 - 100.076	.020	0.508
3.941 - 5.908	100.077 - 150.063	.024	0.610
5.909 - Over	150.064 - Over	.5%	.5%

1. ESD BREAKDOWN VOLTAGE IS A FUNCTION OF TOTAL SYSTEM DESIGN.
2. RESISTANCE IS MEASURED AT 150 GRAMS AGAINST A GOLD PLATED PC BOARD.
3. TYPICAL SWITCH TRAVEL IS 0.8 TO 1 MM, .032" TO .040".
4. TYPICAL SWITCH FORCE IS 80 TO 150 GRAMS.
5. TYPICAL MATERIAL HARDNESS IS 50 DUROMETER.