



Rubber Products Distributors

## Silicone

Common Name _____	Silicone
Trade Names _____	Thermoflex
ASTM D-2000 Classification _____	FC, FE, GE
Military (MIL-STD 417) _____	TA
Chemical Definition _____	Polysiloxane

### GENERAL CHARACTERISTICS

Durometer Range (Shore A) _____	30 – 90
Tensile Range (P.S.I.) _____	200 – 1500
Elongation (Max.%) _____	700
Compression Set _____	Good
Resilience – Rebound _____	Good
Abrasion Resistance _____	Fair to Poor
Tear Resistance _____	Poor
Solvent Resistance _____	Poor
Oil Resistance _____	Fair to Poor
Low Temperature Usage (F°) _____	-60° to -150°
High Temperature Usage (F°) _____	to 450°
Aging Weather – Sunlight _____	Excellent
Adhesion to Metals _____	Good

### COMMENT

Silicone Rubber has a great many variations and can be compounded to meet any number of applications. Silicone can be compounded to have tensile in the area of 1500 PSI and tear up to 200 lbs.; low compression set and good resilience; moderate solvent resistance; excellent heat resistance; good release characteristics; extreme low temperature properties; and can be highly resistant to oxidation and ozone attack.

Silicone is generally attacked by most concentrated solvents, oils, concentrated acids and dilute sodium hydroxide.

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