

SILICONE

Common Name:	Silicone
Trade Name:	Thermoflex – Compound #2850R
ASTM D2000 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
Dielectric Strength. KV/mm	20
Abrasion resistance	Fair to poor
Tear resistance	Poor
Solvent resistance	Poor
Oil resistance	Fair to poor
Low temperature usage	
High temperature resistance	
Aging weather – sunlight	Excellent
Adhesion to metals	Good

COMMENTS

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.