



Material Data Sheet

Material: Silicone

Common Name: Silicone Rubber

Trade Name: Thermoflex – Compound No 2850R

ASTM D2000 Classification: FC, FE, GE Military (MIL-STD 417)

TA Chemical Definition: Polysiloxane

General Characteristics

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|----------------------------|------------------|
| Durometer Range (Shore A) | 30-90 |
| Tensile Range (PSI) | 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 (C) | -50 |
| High Temperature Usage (C) | 316 Intermittent |
| Ageing Weather – Sunlight | Excellent |
| Adhesion to Metals | Good |
| Electrical Properties | Very Good |

Comments

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

Silicone offers Moderate solvent resistance, excellent heat resistance, good release characteristics, extreme low temperature properties and can be highly resistant to oxidation and ozone attack.

These details are given for guidance only – Specific testing can be carried out, please call for details.