

SL50-ACC06 Instruction Sheet

Signatrol Ltd,
Mythe Barns Business Park
Mythe Road
Tewkesbury
Gloucestershire
GL20 6EA
Telephone: 01684 299 399
Fax: 01684 299 375
Email: support@signatrol.com

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 |
| 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 | Poor |
| Low Temperature Usage (C) | -50°C |
| High Temperature Usage (C) | 316°C 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.

Introduction

The SL50-ACC06 is a two part enclosure designed for the protection of SL50 series data logging buttons from liquid ingress.

Although water resistant, the SL50 buttons are not recommended for immersion in liquids as they can damage the internal seals leading to premature failure of the data logger. For this reason whenever the logger is to be totally immersed we recommend the use of an external protection device.

Use

The button is inserted into the cap with the flanged face uppermost and the etched face placed as close as possible to the domed area. The plug is then inserted into the cap and pushed as far as possible into the cap to ensure a good seal.

After the test, the plug can be removed by pushing on the button.

The enclosure may be reused many times but the actual number of times depends upon many factors such as the temperature, the liquid type, the duration. Each time before use carefully inspect the cap for signs of damage and if in doubt discard.

This device is recommended for immersion up to 5M

Response Time

The response time of the button inside the enclosure to reach 63% of its final value is 90 seconds in water. It will take five times this period to reach the final measured value.

