Epoxy &
Polyurethane
Manufacturing and
Research

A QUAKER CHEMICAL COMPANY

# TECHNICAL BULLETIN

## EPMAR® SS1836X-1
## Epoxy Potting Compound

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### Description

EPMAR SS1836X-1 is a black, two component filled epoxy. This epoxy was developed for the potting of electronic modules.

### Performance

| | Part A | Part B |
|---|---|---|
| **Color** | Black | Tan |
| **Specific Gravity** | 1.51 | 1.53 |
| **Viscosity at 25°C, cps** | 26,600 | 7,400 |
| **Brookfield RVT** | 10,600 | mixed |
| **Spindle 6 Speed 10 Filler Content** | 48 | 54.5 |
| **Shelf Life @ 25°C. Months** (Minimum from date of Shipment) | 12 | 12 |
| **Note: Values not intended for use in specification preparation** | | |

### Physical Characteristics

| | |
|---|---|
| **Color** | Black |
| **Filler Content** | 51.2% |
| **Hardness, Shore D** | 76 $\pm$ 5 |
| **Operating Temperature** | 105°C |
| **Water Absorption** | 1.0 (% in 24 hours) |
| **Thermal Conductivity** | 11 x $10^{-4}$ cal x cm/(sec x $cm^2$ x °C) |
| **Coefficient of Linear Thermal Expansion** | 128 x $10^{-6}$ in/in/°C |
| **Glass Transition (tg)** | 50C |
| **Dielectric Strength (volts per mil)** | 410 |
| **Dielectric Constant @25°C., 100 Hz** | 4.4 |
| **Dissipation Factor @ 25°C., 100 Hz** | .052 |
| **Mix Ratio** | 1:1 by weight or volume |
| **Pot Life (200 gram mass @ 25°C.)** | 45 minutes |
| **Gel Time** | 150 minutes |
| **Mixed Viscosity** | 10,600 cps |
| **Cure Schedule @ 25°C.** | 6 hours @ RT Handling Strength<br>7 day - Ultimate Properties<br>3 hours @ 60°C. |

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**Contact EPMAR for any additional application information.**

### Warranty

The following warranty is made in lieu of all other warranties, either expressed or implied. This product is manufactured of selected raw materials by skilled technicians. Neither seller nor manufacturer has any knowledge or control concerning the purchaser's use of this product and no warranty is made as to the results of any use. The only obligation of either seller or manufacturer shall be to replace any quantity of this product, which is proved to be defective. Any claim of defective product must be received in writing within one (1) year from date of shipment. Neither seller nor manufacturer assumes any liability for injury, loss, or damage resulting from use of this product.

**Service is part of our formula**

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Rev 05/04/2018