

# Encapsulation and Potting Materials Thermal Transfer Materials



## Encapsulation and Potting Materials

| Product Code                     | Cure         | Colour      | Mixed Viscosity mPa.s | UL 94V-0 | Min Working Temp °C | Max Working Temp °C | Hardness Shore A | Pot Life mins @ 25°C | Cure Speed |            | Thermal Conductivity W/mK |
|----------------------------------|--------------|-------------|-----------------------|----------|---------------------|---------------------|------------------|----------------------|------------|------------|---------------------------|
|                                  |              |             |                       |          |                     |                     |                  |                      | Hrs 25°C   | Mins 100°C |                           |
| <b>1-Part Silicones</b>          |              |             |                       |          |                     |                     |                  |                      |            |            |                           |
| AS1420                           | Addition     | Grey        | 43000                 | No       | -50                 | 260                 | 67               |                      |            | 30         | 1.38                      |
| AS1421                           | Addition     | Grey        | 140000                | No       | -50                 | 210                 | 56               |                      |            | 16         | 2.10                      |
| AS1721                           | Alkoxy       | Black       | 95000                 | No       | -50                 | 200                 | 27               |                      | <36        |            | 0.20                      |
| AS1722                           | Alkoxy       | Translucent | 40000                 | No       | -50                 | 200                 | 27               |                      | <72        |            | 0.18                      |
| AS1820                           | Acetone      | White       | 30000                 | No       | -50                 | 220                 | 30               |                      | 16         |            | 0.20                      |
| AS1821                           | Acetone      | Black       | 20000                 | No       | -50                 | 220                 | 27               |                      | <24        |            | 0.20                      |
| <b>2-Part Silicone Compounds</b> |              |             |                       |          |                     |                     |                  |                      |            |            |                           |
| QLE1102                          | Addition     | Transparent | 2000                  | No       | -50                 | 200                 | 45               | 180                  | <24        | 30         | 0.18                      |
| QSiil12                          | Condensation | Transparent | 1100                  | No       | -50                 | 220                 | 19               | 120                  | 16         |            | 0.18                      |
| QSiil216                         | Addition     | Transparent | 4500                  | No       | -60                 | 204                 | 40               | 240                  | 20         | 60         | 0.18                      |
| QSiil218                         | Addition     | Transparent | 3000                  | No       | -60                 | 200                 | 59               | 360                  | 24-48      | 60         | 0.18                      |
| QSiil222                         | Addition     | Transparent | 2200                  | No       | -60                 | 200                 | 59               | 1440                 | N/A        | 120        | 0.18                      |
| QSiil229                         | Addition     | Transparent | 2900                  | No       | -60                 | 200                 | 65               |                      | N/A        | 120        | 0.18                      |
| QSiil550                         | Addition     | Grey        | 6000                  | Yes      | -50                 | 275                 | 55               | 30                   | 24         | 7          | 0.37                      |
| QSiil553                         | Addition     | Grey        | 4500                  | Yes      | -50                 | 260                 | 32               | 180                  | 24         | 7          | 0.68                      |
| QSiil556                         | Addition     | Grey        | 1700                  | Yes      | -50                 | 275                 | 46               | 65                   | 24         | 15         | 0.32                      |
| QSiil573                         | Addition     | Grey        | 6000                  | Yes      | -50                 | 200                 | 65               | 60                   | 24         | 35         | 0.90                      |
| SE2003                           | Addition     | Brick Red   | 35000                 | No       | -50                 | 250                 | 80               | 120                  | 24         | 30         | 1.27                      |
| SE2005                           | Condensation | White       | 9000                  | No       | -50                 | 220                 | 40               | 60                   | 24         |            | 0.24                      |
| SE2008T                          | Addition     | Black       | 2200                  | No       | -50                 | 200                 | 48               | 60                   | 9          | 15         | 0.50                      |
| Silcoset 101                     | Condensation | Red         | 40000                 | No       | -60                 | 250                 | 61               | 60                   | 4          |            | 0.37                      |
| <b>Silicone Gels</b>             |              |             |                       |          |                     |                     |                  |                      |            |            |                           |
| EGel3000                         | Addition     | Transparent | 630                   | No       | -55                 | 200                 |                  | >45                  | <24        | <60        |                           |
| EGel3003                         | Addition     | Translucent | 550                   | No       | -55                 | 200                 |                  | 1440                 | N/A        | 60         |                           |
| EGel3004                         | Addition     | Translucent | 26500                 | No       | -50                 | 200                 |                  | 10                   | 0.5        |            |                           |
| QGel300                          | Addition     | Transparent | 1000                  | No       | -55                 | 200                 |                  | 120                  | 24         | 60         |                           |
| QGel301                          | Addition     | Transparent | 2000                  | No       | -55                 | 200                 |                  | 15                   | 1          | 10         |                           |
| QGel311                          | Addition     | Transparent | 1000                  | No       | -55                 | 200                 |                  | 3                    | 1.5        | 10         |                           |
| QGel330                          | Addition     | Transparent | 675                   | No       | -55                 | 200                 |                  | 45                   | 20         | 60         |                           |
| QGel331                          | Addition     | Blue        | 750                   | No       | -55                 | 200                 |                  | 45                   | 20         | 60         |                           |
| EGel3100                         | Addition     | Grey        | 29000                 | No       | -55                 | 200                 |                  | 60                   | 8          | 30         | 1.55                      |

## Thermal Transfer Materials

| Product Code                             | Mixed Viscosity mPa.s | Rheology       | Colour    | RTV or Heat Cure         | Min Working Temp °C | Max Working Temp °C | Hardness Shore A | Thermal Conductivity W/mK |
|--|-----------------------|----------------|-----------|--------------------------|---------------------|---------------------|------------------|---------------------------|
| <b>1&amp;2 Part Adhesive Sealants</b>    |                       |                |           |                          |                     |                     |                  |                           |
| AS1420                                   | 43000                 | Flowable       | Grey      | Heat Cured               | -50                 | 260                 | 67               | 1.38                      |
| AS1405                                   |                       | Paste          | Grey      | Heat Cured               | -50                 | 210                 | 56               | 3.89                      |
| AS1421                                   | 140000                | Paste          | Grey      | Heat Cured               | -50                 | 210                 | 56               | 2.10                      |
| AS1607                                   |                       | Paste          | White     | RTV                      | -50                 | 220                 | 70               | 1.58                      |
| AS1701                                   |                       | Paste          | Black     | RTV                      | -50                 | 220                 | 52               | 0.60                      |
| AS2701                                   |                       | Paste          | Grey      | RTV                      | -50                 | 200                 | 65               | 1.55                      |
| AS1802                                   | 350000                | Self Level     | Grey      | RTV                      | -50                 | 220                 | 67               | 2.30                      |
| AS1803                                   | 350000                | Self Level     | White     | RTV                      | -50                 | 220                 | 65               | 1.55                      |
| <b>2-Part Potting &amp; Encapsulants</b> |                       |                |           |                          |                     |                     |                  |                           |
| QSiil553                                 | 4500                  | Liquid         | Grey      | Heat Accelerated RTV     | -50                 | 260                 | 32               | 0.68                      |
| QSiil573                                 | 6000                  | Viscous Liquid | Grey      | Heat Accelerated RTV     | -50                 | 200                 | 65               | 0.90                      |
| EGel3100                                 | 29000                 | Liquid         | Grey      | Heat Accelerated RTV Gel | -55                 | 200                 | Gel              | 1.55                      |
| SE2003                                   | 35000                 | Viscous Liquid | Brick Red | Heat Accelerated RTV     | -50                 | 250                 | 80               | 1.27                      |
| SE2008T                                  | 2200                  | Viscous Liquid | Black     | Heat Accelerated RTV     | -50                 | 200                 | 48               | 0.50                      |
| <b>1-Part Non Setting Compounds</b>      |                       |                |           |                          |                     |                     |                  |                           |
| SG500                                    | Paste                 | Paste          | White     | Non Curing               | -50                 | 150                 | N/A              | 0.77                      |
| SG502                                    | Paste                 | Paste          | White     | Non Curing               | -50                 | 200                 | N/A              | 3.00                      |

## Coatings & Cleaners

| Product Code | Description                | Solvented | Colour      | Viscosity | Cure    | Min Working Temp °C | Max Working Temp °C | Thinner |
|--------------|----------------------------|-----------|-------------|-----------|---------|---------------------|---------------------|---------|
| ACC11        | Acrylic Conformal Coating  | Yes       | Clear       | 250-350   | Air Dry | -55                 | 130                 | ACC31   |
| ACC14UV      | Silicone Conformal Coating | No        | Clear       | 250       | RTV     | -50                 | 200                 |         |
| ACC15        | Silicone Conformal Coating | No        | Translucent | 1180      | RTV     | -55                 | 200                 |         |
| ACC16        | Silicone Conformal Coating | No        | Translucent | 500       | RTV     | -55                 | 200                 |         |
| AS1722       | Silicone Coating           | No        | Translucent | 40000     | RTV     | -50                 | 200                 | N/A     |
| AS1723       | Silicone Coating           | No        | Translucent | 72000     | RTV     | -50                 | 200                 |         |
| ACC13        | Synthetic Peelable Mask    | No        | Pink        | 29000     | Air Dry |                     |                     | Water   |
| ACC50        | PCB Cleaner in aerosol     | Yes       |             |           |         |                     |                     |         |

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