



Technical Data Sheet

QSi 573

Quantum Silicones' Silicone Potting Material

Product Description

QSi 573 is a 100% silicone solids elastomer designed for electronic potting applications. This two component system offers a hard, thermally conductive, low modulus material that is readily repairable.

Key Features

- 100% solids – no solvents
- Excellent Thermal conductivity

Typical Properties

Uncatalyzed Properties

| Properties | “A” Component | “B” Component |
|-------------------------------------|----------------------|----------------------|
| Viscosity, cps | 6,000 | 6,000 |
| Apperance | White | Grey |
| Specific Gravity, g/cm ³ | 2.10 | 2.10 |
| Mix Ratio | 1.1 | |
| Pot Life(Gel Time) | 2-3 Hours | |

Catalyzed Properties (cured 15 minutes @ 150C)

| | |
|--------------------|-----|
| Durometer, shore A | 65 |
| Tensile, psi | 150 |
| Elongation, % | 50 |

Flammability(based on similar product performance)

| | |
|---------|-----|
| UL 94 * | |
| 3.0mm | V-0 |
| 1.5mm | V-1 |

| | |
|----------------------------|-------|
| Thermal Conductivity, W/mK | ~0.90 |
|----------------------------|-------|

| Electrical Properties | |
|------------------------------|--------------------------|
| Dielectric Constant (1000Hz) | 4.92 |
| Dissipation Factor | 0.005392 |
| Volume Resistivity, Ohm-cm | 5.05616×10^{13} |

Mixing

Thoroughly stir both A and B components prior to mixing together.

Mixing by hand

Combine equal parts of A and B component by weight and stir until completely mixed. Use care when mixing to minimize air entrapment.

Mixing and dispensing with automatic equipment

Use properly ratioed equipment for a 1:1 mix ratio. Also use a mixing system that will properly mix A and B components. Once mixed properly the material will have a 120-180 minute pot life.

Storage and Shelf Life

QSil 573 should be stored in the original unopened container at 25C (77F). It will remain useful for a period of 6 months if stored under those conditions and each component should be thoroughly mixed before use.

Not for Product Specification

The technical data listed herein is provided as a reference only and **is not** intended as sales specifications. For sales and technical assistance or for product recommendations, please call 1-800-852-3147.

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