



Technical Data Sheet

QSi 557

Quantum Silicones' Silicone Potting Material

Product Description

QSi 557 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
- Long pot life
- Low modulus
- Good elongation

Typical Properties

| Uncatalyzed Properties | “A” component | “B” component |
|-------------------------------|---|----------------------|
| Viscosity, cps | 6,500 | 6,000 |
| Appearance | Beige | Black |
| Specific Gravity | 1.24 | 1.24 |
| Mix Ratio | 1:1 | |
| Pot Life | 150minutes* (customized cure available) | |

* Time to 25,000cps

| Catalyzed Properties (cured 20 minutes @ 150C) | |
|---|-----|
| Durometer, shore A | 40 |
| Tensile, psi | 400 |
| Elongation, % | 200 |
| Tear, die B, pli | 20 |
| 100% modulus, psi | 150 |
| Young's modulus | 150 |

| | |
|------------------------------|--------------------|
| Electrical Properties | |
| Dielectric Strength, V/mil | 490 |
| Dielectric Constant (1000Hz) | 3.00 |
| Volume Resistivity, Ohm-cm | 1×10^{14} |

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 pot-life of > 30 minutes

Storage and Shelf Life

QSil 557 should be stored in the original unopened container at 25C (77F). It will remain useful for a period of 12 months if stored under those conditions.

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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