



Technical Data Sheet

QSi 266

Addition Cure Potting Material

PRODUCT DESCRIPTION

QSi 266 is a two-component 100% silicone solids elastomer designed for electronic potting applications. The system offers a hard, thermally conductive, low modulus material that is readily repairable.

KEY FEATURES

- 100% solids, no solvents
- Excellent thermal conductivity
- Heat cure required

TYPICAL PROPERTIES

| UNCATALYZED | | |
|------------------|-------------|-------------|
| TEST | QSi 266 A | QSi 266 B |
| Appearance | Brown | Brown |
| Viscosity | 100,000 cps | 100,000 cps |
| Specific Gravity | 2.10 | 2.19 |

| CATALYZED | |
|--------------------|------------|
| MIX RATIO 1:1 | |
| TEST | RESULT |
| Gel time at 25°C * | > 24 hours |

* Gel time is defined as the time required for the material to become a solid or semi-solid. .

| CURED PROPERTIES | |
|---------------------|---------|
| 15 Minutes at 150°C | |
| TEST | RESULT |
| Durometer, Shore A | 60 |
| Tensile | 200 psi |
| Elongation | 75 % |

| ADDITIONAL PROPERTIES | |
|---|----------------|
| Thermal conductivity | ~ 0.84 W/m-K |
| Flammability (based on similar product performance) | 3.00 mm V-0 |
| | 1.5 mm V-1 |
| Useful Temperature range | - 55°C – 204°C |



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| Curing* | |
|------------|-----------------|
| Time | Temperature, °C |
| 20 minutes | 150°C |
| 40 minutes | 120°C |

*Material will not cure at room temperature and may not reach full physical properties if cured below the minimum recommended cure temperature. These are recommended cure times only with actual cure times and temperatures dependent on the quantity of material being used and the shape of the part being made.

MIXING

Combine equal parts of QSi 266 A and QSi 266 B by weight into a clean, compatible container and mix by hand or with mixing equipment until a uniform consistency is observed. The material should have a uniform color with no visible striations. Use caution when mixing to minimize air entrapment.

DE-AERATION

Air trapped during mixing should be removed by vacuum at 29 inches of mercury. During the process, the material will expand and intermittent evacuation may be required. Typically after releasing the vacuum 2 - 3 times, the mass will collapse on itself at which time the vacuum should be left on for an additional 2 - 4 minutes.

STORAGE AND SHELF LIFE

If QSi 266 A and QSi 266 B are stored in their original unopened containers, in an environment that does not exceed 38°C (100°F) then QSi will warranty the material for a period of 12 months from the date of shipment.



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DISCLAIMER

The technical data listed is provided for reference only and is not intended as product specifications. QSi has the capability to customize products as requested. For sales and technical assistance please contact customer service at **(804) 271-9010** or **1-800-852-3147**.

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