



Technical Data Sheet

QGel 317

General Purpose Silicone Gel

PRODUCT DESCRIPTION

QGel 317 is a very soft, moderately cross-linked silicone polymer. Silicone gels are used to provide protection from vibration and thermal or mechanical shock. Silicone gels also provide excellent moisture protection.

KEY FEATURES

- One to one mix ratio
- Fast cure
- Soft, but resilient
- Designed for mechanical dispensing

TYPICAL PROPERTIES

| UNCATALYZED | | |
|------------------|-------------|-------------|
| TEST | QGel 317 A | QGel 317 B |
| Appearance | Transparent | Transparent |
| Viscosity | 1,000 cps | 1,000 cps |
| Specific Gravity | 0.97 | 0.97 |

| CATALYZED | |
|--------------------|----------------|
| MIX RATIO 1:1 | |
| TEST | RESULT |
| Gel Time at 25°C * | 5 - 10 minutes |

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

| CURED PROPERTIES | |
|----------------------------------|---------------------|
| Cure Profile | 5 minutes at 150°C |
| | 10 minutes at 100°C |
| | 60 minutes at 25°C |
| Penetration, 30 minutes at 150°C | 13 - 20 mm |

| ADDITIONAL PROPERTIES | |
|---------------------------|--|
| Service Temperature Range | -55°C - 204°C |
| Adhesion | Silicone gels have a tacky surface and will form a mechanical bond to most substrates. |
| Electrical Properties | Excellent dielectric strength |



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MIXING

QGel 317 should be thoroughly mixed using a 1:1 ratio by weight or by volume. Once the components are mixed the curing process begins. The gel time of the mixed material is listed above under typical properties. Fast curing gels (less than 30 minute gel time) should be dispensed utilizing automated mix and dispense equipment. The use of mixing equipment is recommended for this product.

DE-AERATION

Air trapped during mixing should be removed to eliminate voids in the cured product. Vacuum de-airing may be necessary to completely remove all entrapped air bubbles. To ensure proper de-airing, subject the mixed material to 29 inches of mercury.

STORAGE AND SHELF LIFE

If QGel 317 A and QGel 317 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.

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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