

# NuSil MED3-6311

Silicone

NuSil Technology

Message:

NuSil Technology's unrestricted materials may be considered for long-term implant applications (greater than 29 days). A silicone gel is an unreinforced, loosely crosslinked network of polymers. Due to the lack of reinforcing filler, gels tend to be low in viscosity in the uncured state, allowing flexibility for various processing techniques. Not only can the crosslink density of the silicone polymers be designed to yield a very firm or soft gel, but the work time and cure profile can also be modified. Accordingly, gels can be used in a variety of applications, including sheeting and encapsulating sensors or electronic devices.

Comments: HIGH PURITY, HIGH STRENGTH

| General Information            |                                    |                   |
|--------------------------------|------------------------------------|-------------------|
| Features                       | Biocompatible                      |                   |
|                                | Breathable                         |                   |
|                                | High Purity                        |                   |
|                                | High Strength                      |                   |
|                                | Low Viscosity                      |                   |
| Uses                           | Electrical/Electronic Applications |                   |
|                                | Medical/Healthcare Applications    |                   |
| Agency Ratings                 | USP Class VI                       |                   |
| Forms                          | Gel                                |                   |
| Processing Method              | Encapsulating                      |                   |
| Thermoset                      | Nominal Value                      | Unit              |
| Thermoset Components           |                                    |                   |
| Part A                         | Mix Ratio by Weight: 3.0           |                   |
| Part B                         | Mix Ratio by Weight: 1.0           |                   |
| Additional Information         | Nominal Value                      | Unit              |
| Cure System                    | Platinum                           |                   |
| Penetration Depth <sup>1</sup> | 3.00                               | mm                |
| Uncured Properties             | Nominal Value                      | Unit              |
| Density                        | 0.968                              | g/cm <sup>3</sup> |
| Viscosity                      | 0.50                               | Pa · s            |
| Curing Time (160°C)            | 3.5                                | hr                |
| NOTE                           |                                    |                   |

1.
- Shaft weight/foot diameter/time :  
12g/1in/5s

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