

## QLE 1051

### 1 Part Non-Corrosive Neutral Cure Adhesive Sealant and Potting Material (Electronic Grade)

#### Description

This is a one-component, self-bonding elastomer designed for use in semiconductor applications. The material has excellent adhesion to many substrates.

#### Key Features

- 100% solids
- Two hour cure time at 150°C/302°F
- Fast cure at elevated temperatures
- Primerless adhesion to a variety of substrates

#### Application

Semiconductor applications

#### Use and Cure Information

This material is a one-component, white, heat-cured silicone elastomer. The material should only be used on clean surfaces to maximize adhesion properties. In addition, some substrates may be difficult to bond to and some, such as galvanized metal, may cause cure inhibition. When this occurs, a primer can be used to eliminate this problem.

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#### Property

##### Uncured Product

Cure Type

Rheology

Self Bonding

Specific Gravity

Viscosity

#### Test Method

Brookfield

#### Value

**Addition**

**Liquid**

**Yes**

**1.50**

**14,500 cP**

##### Cured Product

##### 60 minutes at 150°C

Color

Elongation at Break

Hardness Shore A

Max Working Temp

Min Working Temp

Tensile Strength

ISO 37

ASTM D 2240-95

ISO 37

**White**

**100 %**

**75**

**204 °C / 399 °F**

**-55 °C / -67 °F**

**6.21 N/mm<sup>2</sup> / 900 psi**

##### Electrical Properties

Dielectric Constant

Dissipation Factor

Volume Resistivity (Ohms cm)

ASTM D-150

ASTM D-150

ASTM D-257

**2.8**

**0.017**

**7E+14 ohms cm**

##### Storage

Max Storage Temperature

Shelf Life

**4.4 °C / 40 °F**

**12 mths**

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