

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.

Revision Date 13 Oct 2021
Revision No 3
Download Date 19 Apr 2024

Property

Uncured Product

Property	Test Method	Value
Cure Type		Addition
Rheology		Liquid
Self Bonding		Yes
Specific Gravity		1.50
Viscosity	Brookfield	14,500 cP

Cured Product

60 minutes at 150°C

Property	Test Method	Value
Color		White
Elongation at Break	ISO 37	100 %
Hardness Shore A	ASTM D 2240-95	75
Max Working Temp		204 °C / 399 °F
Min Working Temp		-55 °C / -67 °F
Tensile Strength	ISO 37	6.21 N/mm ² / 900 psi

Electrical Properties

Property	Test Method	Value
Dielectric Constant	ASTM D-150	2.8
Dissipation Factor	ASTM D-150	0.017
Volume Resistivity (Ohms cm)	ASTM D-257	7E+14 ohms cm

Storage

Property	Value
Max Storage Temperature	4.4 °C / 40 °F
Shelf Life	12 mths

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