

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 07 May 2024
Revision No 4
Download Date 18 May 2024

Property

Uncured Product

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

Cured Product

60 minutes at 150°C

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/mm2 / 900 psi

Electrical Properties

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

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

The content set out in the technical data sheet does not contain information upon which you should rely. It is provided for general information purposes only and does not constitute a product specification. You must obtain professional or specialist advice before taking any action based on the information provided in the technical data sheet. CHT make reasonable efforts to ensure that information set out in the technical data sheet is complete, accurate, and up-to-date. CHT do not, however, make any representations, warranties or guarantees (whether express or implied) that information set out in the technical data sheet is complete, accurate, or up-to-date or that the product will be suitable for your requirements. You should carry out your own testing to determine the applicability of such information and whether the product will be suitable. CHT reserve the right to modify the technical data sheet at any time. The CHT technical service department is available to offer further information and advice and should it be needed to look at modifying current products or custom formulate a new one to meet your specific requirements. Please contact the technical service department.

CHT Germany GmbH: Postfach 12 80, 72002 Tübingen, Bismarckstraße 102, 72072 Tübingen, Germany
Telephone: 07071/154-0, Fax: 07071/154-290, Email: info@cht.com, Homepage: www.cht.com / www.cht-silicones.com