

Value

Clear Liquid

Transparent

Transparent

Addition

20 hrs

10:1

No

60 mins

240 mins

5000 mPas

1000 mPas

4500 mPas

275 ppm/°C

825 ppm/°C

Transparent

40

100 %

0.2%

204 ° C

-55 °C

4.8 MPa

0.18 W/mK

1.02

No

30 ° C

2.69

0.0006

24 mths

19.70 kV/mm

1.7E+15 ohms cm

Viscous Liquid

Test Method

Brookfield

Brookfield

Brookfield

ASTM D 2240-95

ISO 37

ISO 37

AFS_1540B

BS ISO 2781

ASTM D-149

QSil216

10:1 Addition cure silicone encapsulant optically clear

Property

Appearance

Colour A Part

Colour B Part

Cure Type

Mix Ratio

Rheology

Pot Life mins

Self Bonding

Uncured product

Max Cure Hrs @ 25 °C

Viscosity A-Part mPas

Viscosity B-Part mPas

Viscosity Mixed mPas

After 1 hour at 100°C

CTE Volumetric ppm/°C

CTE Linear ppm/°C

Linear Shrinkage %

Max Working Temp +°C

Min Working Temp - °C

Thermal Conductivity W/mK

Max storage temperature

Electrical properties

Dielectric Strength kV/mm

Dielectric Constant @ 1kHz ASTM D-150

Dissipation Factor @ 1kHz ASTM D-150

Volume Resistivity ohms cm ASTM D-257

Cured product

Duro Shore A

Elongation %

Tensile MPa

UL 94V-0

Storage

Shelf life

°C

Colour

SG

Max Cure Mins @ 100 °C

Introduction

This is a 2-component, silicone elastomer system specially designed for electronic potting and encapsulation applications. It offers good protection against chemicals, environmental contamination, mechanical shock, vibration and impact damage. It can be employed in areas where low flammability is a prerequisite. The cured elastomer can be repaired. The component parts have relatively low viscosities and are readily mixed either by hand or machine

Key Features

- Non yellowing under UV light
- Optically clear
- Low Viscosity

• Wide temperature range Use and Cure Information

IMPORTANT:

The 'A' part of the product contains the platinum catalyst, great care should be taken when using automatic dispensing equipment. Please ensure that it is not contaminated by residual hydride containing rubber in the dispensing equipment, as curing will result. If in doubt, it's advised to thoroughly purge the equipment with a suitable hydrocarbon solvent or silicone fluid. **Mixing**

Mixing

Both the 'A' and 'B' parts should be well stirred to ensure the material is uniform and any settled the fillers have been remixed. Place the required amount of 'A' and 'B' parts by weight at the mix ratio shown opposite, in a clean plastic or metal container of approximately 3 times their volume, and mix until the colour of the mixture is uniform. For best results, we recommend degassing. Degas by intermittent evacuation, the larger volume of the mixing vessel helps prevent overflow during this operation. In the case of automatic dispensing with static mixing head, the two components should be degassed before processing. Recommended vacuum conditions are 30-50 mbar intermittently over 5-10 minutes. Cast the mixture either by gravity or pressure injection.

Inhibition of Cure

Great care must be taken when handling and mixing all addition cured silicone elastomer systems, ensuring that all the mixing tools (vessels and spatulas) are clean and constructed in materials which do not interfere with the curing mechanism. The cure of the rubber can be inhibited by the presence of compounds of nitrogen, sulphur, phosphorus and arsenic; organotin catalysts and PVC stabilizers; epoxy resin catalysts and even contact with materials containing certain of these substances e.g. moulding clays, sulphur vulcanised rubbers, condensation cure silicone rubbers, onion and garlic.

Curing Conditions

The data offers a guide to the rate of cure at various temperatures, mixing of the components at temperatures between 15 and 25 °C is recommended to ensure adequate pot life for degassing and handling. The pot life can be extended to several hours by chilling the components before mixing.

Health and Safety

Safety Data Sheets available on request.

Packaging

CHT Encapsulants are available in a variety packaging including bulk containers. Please contact our sales department for more information. Revision Date : 15/04/2019

Download Date : 08/11/2019

The information and recommendations in this publication are to the best of our knowledge reliable. However, nothing herein is to be construed as warranty or
representation. Users should make their own test to determine the applicability of such information or the suitability of any products for their own particular
purposes. Statements concerning the user of the products described herein are not to be construed as recommending the infringement of any patent and no liability
for infringement arising out of any such use is to be assumed. All values are typical and should not be accepted as a specification