TECHNICAL DATA SHEET



Value

24 hrs

1.21

1.14

100:1

Liquid

9000 cP

300 cP

9000 cP

762 ppm/°C

1.20 g/cm3

220 °C / 428 °F

-50 °C / -58 °F

0.24 W/mK

3.4

2 N/mm / 12 ppi

1.08 N/mm2 / 157 psi

>18 kV/mm / 0 V/mil

3E+14 ohms cm

40 °C / 104 °F

9 mths

White

180 %

0.5 %

1 hr mins

Condensation

Test Method

BS ISO 2781

BS ISO 2781

Brookfield

Brookfield

Brookfield

BS ISO 2781

BS ISO 34-1

ASTM D-150

ASTM D-149

ASTM D-257

ISO 37

ASTM D 2240-95 40

ISO 37

SE2005 2 part encapsulation and potting silicone

Property

Cure Type

23°C/73°F

Density A

Density B

Rheology

Viscosity A

Viscosity B

Color

Density

Viscosity Mixed

Cured Product

CTE Volumetric ppm/°C

Elongation at Break

Linear Shrinkage (%)

Max Working Temp

Min Working Temp

Thermal Conductivity

Electrical Properties

Dielectric Strength kV/mm

Volume Resistivity (Ohms

Max Storage Temperature

Dielectric Constant

Tensile Strength

Tear Resistance (N/mm)

Hardness Shore A

Uncured Product

Mix Ratio By Weight

Pot Life mins at 23°C/73°F

7 days at 23+/-2°C and 50+/-5% humidity

De-mould Time / Full Cure at

Description

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

- Low viscosity
- Deep section cure
- Excellent dielectric properties
- Protects against shock and vibration

Application

Protects against shock/vibration.

Use and Cure Information

The product is supplied as two components 'A' and 'B'. These components should be mixed together in the ratio by weight shown opposite. Mixing can be done by hand or by automated dispensing machine using a static mixer nozzle. A nozzle of at least 9 GXF type elements is recommended for uniform mixing of both components.

The dispensing machine mix ratios should be adjusted if mixing by volume and not weight. IMPORTANT the mixed components will cure in the nozzle so to preserve nozzles a continuous process is required or a change of nozzle after the task is completed. Complete mixing of each component is achieved within the first 50-60% of the nozzle.

Mixing

Both the 'A' and 'B' parts should be well stirred to ensure the material is uniform and any settlement of 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 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.

It is important to check the compatibility in preliminary tests if unknown substrates are used.

Health & Safety

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.

cm)

Storage

Shelf Life

Revision Date	29 Apr 2021
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Download Date	09 Jul 2022

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