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Value

16 hrs

120 mins

1400 mPas

1100 mPas

300 ppm/°C

900 ppm/°C

Transparent

15 mPas

Liquid

20:1

No

19

1%

220 °C

-50 °C

0.18 W/mK

0.99

No

38 °C

6 mths

>17 kV/mm

1.0E+13 ohms cm

3

0.001

Clear Liquid

Transparent

Transparent

Condensation

Test Method

Brookfield

Brookfield

Brookfield

ASTM D 2240-95

AFS_1540B

BS ISO 2781

After 3 days cure at 23°+/-2°C and 50+/-5% humidity

СНТ

QSil12 20:1 Condensation cure silicone encapsulant 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

Cured product

Duro Shore A

Colour

SG

UL 94V-0

Storage

Shelf life

°C

CTE Linear ppm/°C

Linear Shrinkage %

CTE Volumetric ppm/°C

Max Working Temp +°C

Min Working Temp - °C

Thermal Conductivity W/mK

Max storage temperature

Electrical properties

Dielectric Constant @ 1kHz ASTM D-150

Dielectric Strength kV/mm ASTM D-149

Dissipation Factor @ 1kHz ASTM D-150

Volume Resistivity ohms cm ASTM D-257

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

- **Optically Clear**
- Accelerated cure with heat
- Low Viscosity

Good deep section cure

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.

Health and Safety

Safety Data Sheets available on request.

Packaging

ACC Encapsulants are available in a variety packaging including bulk containers. Please contact our sales department for more information. Revision Date : 02/11/2017

Download Date : 16/04/2018

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