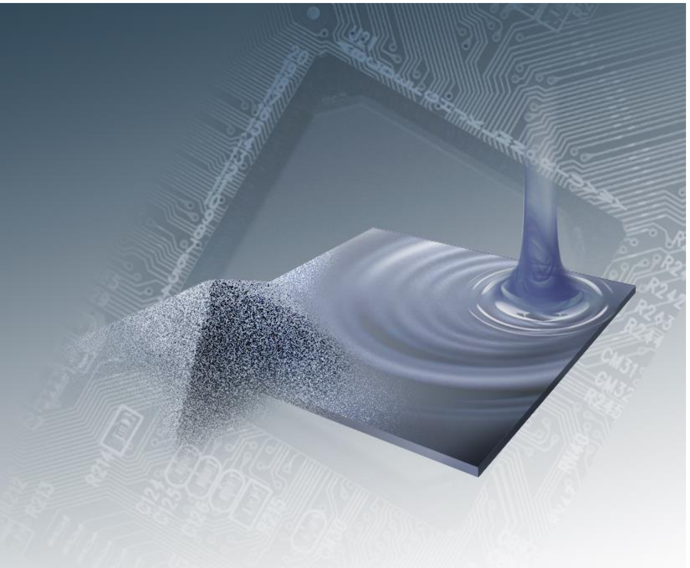
Panasonic

**Data Sheet**



# Liquid Encapsulation Materials

## CV5313 series

Sep. 2020　No.200929-4

Partnering to go beyond.
Electronic Materials
Panasonic Corporation

# Specification

Liquid encapsulant materials

## CV5313HS

TECHNICAL INFORMATION

This is one component epoxy for BGA/CSP reinforcement application.

### TYPICAL PROPERTIES

| Properties | Unit | Data | Test Method |
|---|---|---|---|
| Viscosity(25degC) | Pa*s | 2 | KES 0171 |
| Thixo,index | - | 1.00 | KES 0170 |
| Gelation time | sec | 40 | KES 0175 |

### ATTENTION TO HANDLING

#Please avoid direct contact with this product by wearing gloves, protecting gears,etc.

#Prevent frequent skin contact. If contact occurs, wash immediately with soap and water.

### TYPICAL CURED PROPERTIES

**Cure Conditions : 130degC 30 minutes**

| Properties | Unit | Data | Test Method |
|---|---|---|---|
| Glass Trans. Temp. | degC | 105 | KES-F-0012 |
| C.T.E. | $\times 10^{-5}$/degC | 7.1 | KES 0008 |
| Flexural Modulus | GPa | 3.2 | KES 0125 |
| Volume Resistivity | ohm·cm | $1\times 10^{15} <$ | KES 0121 |

### RECOMMED CURE CONDITIONS

| |
|---|
| 130degC/5min |

### STORAGE

| | |
|---|---|
| Shelf life | 6 months(5℃>) |
| Pot life (25℃70%) | 3 days |

#Compound must be stored in the cool condition with sealing. (store under 5±5degC in refrigerator)

#Please keep material under 5±5degC after receiving product.

* The data in the above table are not guaranteed values.

# ++ Before purchase ++

## 【Notes before you use】

- Please verify the suitability and fitness for intended application by quality testing, evaluation or other means at your own option before any adoption, use or change of use conditions of a product listed in the datasheet.
- We would like to have a delivery specifications mutually agreed for the product that you have decided to use. The agreements defined in the delivery specifications are assigned higher priority.
- Please note that specifications and external design are subject to change for product improvement without notice.
- For details on products in the datasheet, please contact your distributor or our sales department.

## 【Safety Information】

- Before using the product, please read the delivery specifications carefully or contact the distributor from which you purchased the product or our sales department in order to use the product correctly.
- The products in the datasheet are Semiconductor encapsulation materials for electronic and electrical devices. Please do not use them for other than specified use.

## Please Contact us of more

### 【Plant & Technical Marketing】

- Japan (Mie)
  TEL: 81-59-346-1131
- USA (Mountain View)
  TEL: 1-408-861-3946
- Austria (Enns)
  TEL: 43-7223-883
- China (Shanghai)
  TEL: 86-21-3855-2332
- Thailand (Ayutthaya)
  TEL: 66-3533-0846

### 【Sales Offices】

| | |
|---|---|
| ・China (Shanghai) | TEL: 86-21-3855-2332 |
| ・Singapore | TEL: 65-6241-6754 |
| ・Philippines (Makati) | TEL: 63-632-886-6291 to 94 |
| ・Korea (Seoul) | TEL: 82-2-361-7873 |
| ・Taiwan (Hsin Chu) | TEL: 886-3-598-3201 |
| ・Thailand (Ayutthaya) | TEL: 66-3533-0846 |
| ・Austria (Enns) | TEL: 43-7223-883 |
| ・USA (Mountain view) | TEL: 1-408-861-3946 |
| ・Japan (Tokyo) | TEL: 81-6-6904-2771 |

Panasonic Corporation
Industrial Solutions Company
Electronic Materials Business Division
Head Office: 1006 Kadoma, Kadoma City, Osaka 571-8506
TEL: 81-6-6908-1101
industrial.panasonic.com/ww/electronic-materials

U.S. Sales office Web site
https://na.industrial.panasonic.com/products/electronic-materials