

## TECHNICAL DATA SHEET



# PVIC<sup>®</sup> ACE34034-X2

## ELECTRICALLY CONDUCTIVE, HIGH THERMAL CONDUCTIVE DIE ATTACH ADHESIVE

### Description

PVIC<sup>®</sup> ACE34034-X2 electrically conductive, thermally conductive die attach adhesive is specially designed for packages which need high thermal conductivity such as RF ICs and LEDs. It also has a good workability in auto dispensing or stamping process. This product has an improved adhesion on Au plated substrate than ACE34034

### Application Package

Devices which need high thermal conductivity (Power Devices, RF ICs, and LEDs)

### Features

Single component  
High thermal conductivity  
Very low drying during process

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Filler type	Silver
Resin	Epoxy
Cure Condition	Ramp to 175 °C for 30 min + hold 175 °C for 30 min
Work life @ 25 °C	24 hrs
Estimated Storage life at -40 °C	1 year

## Properties

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TEST ITEMS	STANDARD	TEST METHOD
Specific Gravity	4.30	BHS-K-112
Viscosity @ 25°C	11,000cps @ 5.0 rpm	BHS-K-108
Thixotropic Index	6.0	BHS-K-108
Volume Resistivity	0.0001 ohm-cm	BHS-K-110
Die Shear Strength (Si to Cu L/F) @ RT (58×50mil2)		
@ 250°C (250×250mil2)	> 7.0 kg	BHS-K-109
Hot-Wet Die Shear Strength after 85%/85°C/24hr@250°C(80×80mil2)	> 3.0 kg 1.8 kg	
Die Shear Strength (Si to Au Sub.) @ RT (50×50mil2)	2.2 kg	BHS-K-109
@ 250°C (160×160mil2)	2.6 kg	
DSC	Onset 147 °C Peak 163 °C	BHS-K-113
Glass Transition Temp. (Tg) TMA	99.5 °C	BHS-K-116
Ionic impurity		
Chloride	≤ 15 ppm	BHS-K-104
Sodium	≤ 10 ppm	
Potassium	≤ 10 ppm	
Thermal Conductivity	> 20 W / m.k	-
TMA by Expansion		
@ α 1	35 ppm	BHS-K-117
@ α 2	120 ppm	
Modulus		
@ 25°C	60 MPa	BHS-K-118
@ 100°C	42 MPa	
@ 250°C	68 MPa	

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## Instruction

### Thawing

Place the container to stand vertically for 30min – 1 hour. **DO NOT** open the container before adhesive reaches ambient temperature to prevent the moisture condensation. Any moisture that collects on the thawed container should be removed prior to use. Adhesives that appear to have separated should not be used.

### Storage

Adhesive should be stored @ -40°C or colder. The shelf life of the material is only valid when the material has been stored at the correct storage condition.

### Availability

PVIC adhesives are packaged in syringes or pots per customer specification. For the details, please contact our Customer Service or sales department.

The figures shown above are typical values only. If you need to generate a specification, please request our Standard Release