

## TECHNICAL DATA SHEET



# PVIC® ACE34033

## ELECTRICALLY CONDUCTIVE OVEN CURE DIE ATTACH ADHESIVE

### Description

PVIC® ACE34033 electrically conductive die attach adhesive is designed for high reliability semiconductor packaging application. This high purity adhesive has been engineered for use in high throughput in-line die attach oven cure and its superb rheology allows minimum adhesive dispense and die placement times along with no tailing & stringing phenomenon during dispense. It also exhibits less void and resin bleed out with significant bond strength in the high temperature and humidity condition.

### Application Package

TSOP, QFP and DIP etc

### Features

Single component  
Excellent dispensability  
Low volume resistivity  
Minimal resin bleed and low volatiles

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Filler type	Silver
Resin	Epoxy
Cure Condition	At 175 for 20 min
Work life @ 25°C	> 24 hours
Estimated Storage life at -40°C	1 year 6 months (alternate storage life under -20°C)

## Properties

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TEST ITEMS	STANDARD	TEST METHOD
Viscosity @ 25°C	8500cps @ 5.0 rpm	BHS-K-108
Thixotropic Index	5.0	BHS-K-108
DSC	Onset 139°C Peak 160°C	BHS-K-113
Volume Resistivity	0.000196 ohm-cm	BHS-K-110
Die Shear Strength		
@ RT (50×58mil <sup>2</sup> ) (Si to Ag plated L/F)	7 kg	BHS-K-109
@ 250°C(250×250mil <sup>2</sup> )(Si to Ag plated L/F)	4 kg	
Weight loss on cure	2.79 Wt.%	BHS-K-111
Glass Transition Temp. (Tg) by DMA	35.8 °C	BHS-K-116
Modulus		
25°C	505 MPa	
100°C	42 MPa	
250°C	42 MPa	
Thermal Conductivity	9.23 W / mk	-
Ionic impurity		
Chloride	≤ 15 ppm	
Sodium	≤ 10 ppm	BHS-K-104
Potassium	≤ 10 ppm	

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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 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