

TECHNICAL DATA SHEET

**PVIC® ACE34560***Formerly X56-10BFN*

**ELECTRICALLY CONDUCTIVE OVEN CURE
DIE ATTACH ADHESIVE**

Description

PVIC® ACE34560 electrically conductive die attach adhesive is designed for high reliability semiconductor packaging application. This high purity material exhibits less void and low resin bleed out with significant bond strength in the high temperature and humidity condition. Its good rheology also allows minimum adhesive dispense and die placement times along with no tailing & stringing phenomenon during dispense. In addition, its long work life is being considered as the advantage of this product.

Application Package

PHOTO COUPLER & DIODES

Features

Single component
 Excellent dispensability
 Long work life
 Minimal resin bleed and low condensable volatiles
 Oven cure

Filler type	Silver
Resin	Epoxy
Cure Condition	At 190°C for 30min At 175°C for 1hr (alternate cure condition in box oven)
Work life @ 22°C	1 week
Estimated Storage life at -40°C	1 year

Properties

TEST ITEMS	STANDARD	TEST METHOD
Viscosity @ 25°C	11700cps @ 5.0 rpm	BHS-K-108
Thixotropic Index	4.94	BHS-K-108
Volume Resistivity	0.000352 ohm-cm	BHS-K-110
Die Shear Strength (Si to Cu L/F) @ RT (80×80mil ²) @ 250°C (186×70mil ²)	12.6 kg 2.8 kg	BHS-K-109
DSC	Onset 140.00°C Peak 154.00°C	BHS-K-113
Weight loss on cure	7.12 Wt. %	BHS-K-111
Weight loss in TGA @250°C @300°C	0.010 Wt. % 0.090 Wt. %	BHS-K-114
Glass Transition Temp. (Tg)	130 °C	BHS-K-116
Thermal Conductivity	2.8 W / mk	Laser flash
Ionic impurity Chloride Sodium Potassium	≤ 15 ppm ≤ 10 ppm ≤ 5 ppm	BHS-K-104

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