

**PRODUCT DESCRIPTION:**

AA-DUCT 2979 is a fast curing one part epoxy adhesive with superior electrical conductivity and bonding capability.

AA-DUCT 2979 has been shown to retain their properties through hundreds of hours of rapid temperature cycling and has also high impact absorption and stress resistance.

These qualities make it an excellent choice for a number of electronic applications especially in "under the hood" and other harsh operating environments. AA-DUCT 2979 has a shelf life of at least 6 months when stored at -40°C. It contains no volatile, harmful solvents or lead, and conforms to all of the requirements of the solder replacement market.

**PRODUCT PROPERTIES:**

<b>Appearance</b>	Silver
<b>Cure Type</b>	Heat cure
<b>Benefits</b>	<ul style="list-style-type: none"> <li>• High strength</li> <li>• Excellent mechanical, electrical properties</li> </ul>
<b>Substrates</b>	Excellent choice for Integrated Circuits, aluminum, copper, magnesium, steel, bronze, nickel, ceramic, glass, phenolic and G-10 epoxy glass boards.
<b>Operating Temperature</b>	-40°C to 175 °C
<b>Outgassing, NASA</b>	Passes
<b>Thixotropic Index</b>	3.4
<b>Pot Life @25°C</b>	6 Months
<b>Typical Applications</b>	Applications where high impact absorption and stress resistance is required

**CURE SCHEDULE:**

<b>10 minutes</b>	@ 150°C
<b>1 hour</b>	@ 125°C

**CURED PROPERTIES:**

<b>Hardness, Shore D</b>	86
<b>Volume Resistivity ohm-cm</b>	3 x 10 <sup>-4</sup>

**ELECTRICAL PROPERTIES:**

<b>Glass Transition Temp, T<sub>g</sub></b>	45.0 °C, 113 °F
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**UNCURED PROPERTIES:**

<b>Viscosity @ 25 °C cps</b>	65,000 @Temperature 77.0 °F
<b>Shelf Life</b>	6 months
<b>Adhesive Bond Strength</b>	1750 psi
<b>Density</b>	3.5
<b>Thermal Conductivity, W/m.K</b>	0.90
<b>Coefficient of Thermal Expansion</b>	57x 10 <sup>-6</sup> (in/in) C
<b>Lap Shear Strength, PSI</b>	9200

**GENERAL INFORMATION:**

For safe handling information on this product, consult the Material Safety Data Sheet, (MSDS).

**HOW TO USE:**

1. Carefully clean and dry all surfaces to be bonded.
2. Apply AA-DUCT 2979 to the prepared surfaces.
3. Some separation of components is common during shipping and storage. For this reason, it is recommended that the contents of the shipping container be thoroughly mixed prior to use.

**AVAILABILITY:**

This epoxy can be supplied in many different packages.

**Atom Adhesives**

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