



LA650S AC

Product Description

LA650S AC is a one-component, non-flowable, heat curable silicone adhesive for electrical and electronic applications. This product cures with heating, in a short period of time, to a tough silicone elastomer.

Key Features and Benefits

- Easy to use – one component system
- Non-flowable consistency
- Heat accelerated cure
- Primerless adhesion to many substrates – Plastics, Metals, Ceramics and Glass
- Excellent high and low temperature resistance

Typical Physical Properties (JIS K 6249)

Uncured Properties

Property	Unit	Value
Appearance	-	Black, non-flowable
Viscosity at 23°C	Pa•S	150

Cured Properties (90 minutes at 125°C)

Property	Unit	Value
Appearance	-	Black, elastic rubber
Density (23°C)	g/cm ³	1.10
Hardness	(Type A)	65
Tensile Strength	MPa	6.5
Elongation	%	120
Adhesive Strength ⁽¹⁾	MPa	5.0
Volume Resistivity	Ohm• cm	6.0x10 ¹⁵
Dielectric Strength	kV/mm	22

Dielectric Constant (60 Hz)	-	2.9
Dissipation Factor (60 Hz)	-	0.01
Thermal Conductivity ⁽²⁾	W/mK	0.2

(1) Nickel lap shear

(2) In-house test method

Typical property data values should not be used as specifications.

Assistance and specifications are available by contacting Momentive Performance Materials.

Typical Applications

- Sealing and adhesive between plastics and metals/ceramics in various electronic parts
- Semiconductor modules, automotive electronics units, home appliance assemblies

Processing Recommendations

- When removing material from cold storage, allow the contents to come to room temperature before opening the container to avoid condensation.
- All parts should be as clean and dry as possible prior to application.
- LA650S AC silicone adhesive will cure in contact with most clean, dry surfaces. However, the following materials can cause cure inhibition: water, sulfur, amines, organic metallic salts, phosphorus compounds, etc. Cure inhibition is characterized by a gummy appearance of the LA650S AC silicone adhesive at the interface between the adhesive and the substrate to be bonded. A sample patch test should always be performed to determine substrate compatibility.

Patent Status

Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute a permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

Product Safety, Handling and Storage

Customers should review the latest Material Safety Data Sheet (MSDS) and label for product safety information, safe handling instructions, personal protective equipment if necessary, and any special storage conditions required for safety. MSDS are available at www.momentive.com or, upon request, from any Momentive Performance Materials (MPM) representative. **For product storage and handling procedures to maintain the product quality within our stated specifications, please review Certificates of Analysis, which are available in the Order Center.** Use of other materials in conjunction with MPM products (for example, primers) may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

Limitations

Customers must evaluate Momentive Performance Materials products and make their own determination as to fitness of use in their particular applications.

Contact Information

For product prices, availability, or order placement, contact our customer service by visiting momentive.com/ContactSilicones.

For literature and technical assistance, visit our website at: www.momentive.com

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