



## **PACKAGING ADHESIVE/SEALANT FORMULATION RJ9LHS**

*RJ9LHS is a b-staged, silver filled, electrically conductive epoxy for application to ceramic, plastic, and metal IC covers. It is ideal for applications where electrical conductivity is required.*

### **TYPICAL PROPERTIES**

Max operating temperature (continuous), °C	120-135°C
Outgassing	10ppm
Moisture absorption (24 hr. soak in water @ 100°C)	0.2%
Total ionic content (specific electrical conductance), mS/m	NA
Extractable Ions, ppm	<10
Hydrolysable chloride content, ppm (MIL-STD 883H Method 5011.5)	NA
Ultimate Tg by DSC, °C	102
Modulus, psi	650,000
CTE, ppm/°C	21
Dielectric constant (@ 1MHz)	NA
Volume resistivity, Ohm-cm	$1.5-4.5 \times 10^{-2}$
Thermal conductivity, W/m-k	3.0 – 3.5

### **TYPICAL SEALED PACKAGE PERFORMANCE PROPERTIES**

Reflow temperature, °C	NA
Lap shear strength (gold/ceramic @ 25°C), psi	2000

*\*These values may vary depending upon the materials to which the epoxy is adhered. All above data is based on sealed packages consisting of a ceramic header and a ceramic lid.*

### **SEALING AND CURING**

*Most parts can be sealed and cured in a one-step cycle of 60 minutes at 165°C under 5 psi of pressure. Both reactivity and rheology are adjustable to meet specific sealing requirements. For alternate curing practices or automated sealing procedures, please consult RJR Technologies Customer Service. (Phone # 510-638-5901 or FAX # 510-638-5958)*

### **STORAGE AND HANDLING**

*Keep parts with the material in vacuum sealed bag with dry-packs at 3-8°C and <50% RH. Shelf life of the material when stored under refrigerated conditions (3-8°C) is 6 months from the date of manufacture. Room temperature and frozen storage conditions may be appropriate for some applications. Please consult RJR Technologies Customer Service for specific storage options.*

### **REGULATORY**

*This product is RoHS compliant.*

### **NOTICE**

*This data is provided for guideline purposes. No warranty is made on the actual use. Customers should perform their own tests and qualifications.*