PACKAGING ADHESIVE/SEALANT RJQ39

RJQ39 is a B-staged adhesive/sealant for sealing electronic packages. It is ideal for use in automated sealing applications for materials of similar CTE values. RJQ39 is a next generation substitute for RJ4B. RJQ39 has improved moisture resistance; lower out gassing properties, and better adhesion to plastic than its predecessor RJ4B. It is a system for use on ceramic, plastic, and metal IC covers.

TYPICAL PROPERTIES

Max operating temperature (continuous), °C	*160-175°C*
Outgassing	*0.1%TML, 0.02%CVCM*
Moisture absorption (24 hr. soak in water @ 100°C)	*0.1%*
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	*160*
Modulus, psi	*NA*
CTE, ppm/°C	*23*
Dielectric constant (@ 1MHz)	*3.4*
Volume resistivity, Ohm-cm	*3×10^{16}*
Thermal conductivity, W/m-k	*0.4 – 0.6*

*TYPICAL SEALED PACKAGE PERFORMANCE PROPERTIES**

Reflow temperature, °C	*260*
Lap shear strength (gold/ceramic @ 25°C), psi	*4000*

**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 160oC under 5 psi of pressure. For alternate curing practices or automatic sealing procedures, please consult RJR POLYMERS, INC. 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℃) is 6 months from the date of manufacture. Room temperature and frozen storage conditions may be appropriate for some applications. Please consult RJR Polymers 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.