



**PACKAGING ADHESIVE/SEALANT  
MOISTURE BARRIER FORMULATION  
RJ4MB-HT/RJ4MB-V2**

*RJ4MB-HT/RJ4MB-V2 is a Beta stage adhesive/sealant for general-purpose use in sealing electronic packages. It is ideal for use in mechanized sealing systems or manual clipping processes. It is a high flow, low viscosity system for use on ceramic, plastic, and metal IC covers.*

**TYPICAL PROPERTIES**

Max operating temperature (continuous), °C	160-165°C
Outgassing	0.7%TML, 0.04%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	180
Modulus, psi	380,000
CTE, ppm/°C	29
Dielectric constant (@ 1MHz)	3.2
Volume resistivity, Ohm-cm	$3 \times 10^{16}$
Thermal conductivity, W/m-k	0.3 – 0.5

**TYPICAL SEALED PACKAGE PERFORMANCE PROPERTIES**

Reflow temperature, °C	260
Lap shear strength (gold/ceramic @ 25°C), psi	3500

*\*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 160°C with 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.*