

**ENTEX™ 84251**

**GENERAL PURPOSE EPOXY ADHESIVE AND ENCAPSULANT**

**TECHNICAL DATA**

**July 2014**

**Product Description**

Flowable, High Temperature Resistant, Rigid, Clear, Low Shrinkage in Electronic Packages. High humidity and shock resistance.

| APPLICATIONS                                                                                                         | FEATURES                                                                                                                       | SUBSTRATES                                                                               | PACKAGING                                                         |
|----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>Automotive</li> <li>LED Lighting</li> <li>LCD</li> <li>Electronics</li> </ul> | <ul style="list-style-type: none"> <li>RoHS Compliant</li> <li>Clear</li> <li>High Temperature, Humidity Resistance</li> </ul> | <ul style="list-style-type: none"> <li>Metal</li> <li>Rubber</li> <li>Plastic</li> </ul> | <ul style="list-style-type: none"> <li>Dual Cartridges</li> </ul> |

**TYPICAL PROPERTIES OF UNCURED MATERIAL**

| Property                | Value, Part A | Value, Part B |
|-------------------------|---------------|---------------|
| Chemical Class          | Epoxy         | Amine         |
| Appearance              | Clear         | Clear         |
| Viscosity, 10 RPM, cps  | 15,200        | 2,280         |
| Viscosity, 100 RPM, cps | 15,840        | 2,380         |
| Specific Gravity        | 1.14          | 1.07          |
| Mix Ratio by Volume     | 2             | 1             |

**TYPICAL PROPERTIES OF CURED MATERIAL**

| Property                              | Value |
|---------------------------------------|-------|
| Glass Transition Temperature (Tg), °C | 80    |
| Lap Shear Strength, Al/Al, PSI        | 3,000 |
| Hardness, Shore                       | D80   |
| Ultimate Tensile Strength, PSI        | 5,000 |
| Elongation at Break, %                | 8     |
| Young's Modulus (20°C), PSI           | -     |
| Volume Resistivity, Ω-cm              | -     |

\*All properties indicate typical values which are not meant to be used for preparing specifications.

**PROCESSING**

|                  |                                               |
|------------------|-----------------------------------------------|
| Work Life        | 20 Minutes                                    |
| Cure Options     | 24 hours @ RT, 2 hours @ 65°C, 1 hour @ 100°C |
| Clean-Up Solvent | Isopropyl Alcohol                             |

**SHELF LIFE, STORAGE**

**18 ± 10°C 1 Year DOM**

**THIS MATERIAL IS SOLD FOR INDUSTRIAL USE ONLY**

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