

VIVID CURE™ 86251

DUAL CURE UV/THERMAL EPOXY

TECHNICAL DATA

APRIL 2016

Product Description

Dual Cure UV/Thermal adhesive that sets rapidly under UV Light. Flowable, UV Gellable, High Temperature Resistant, Rigid, Clear Low Shrinkage in Electronic Packages. High humidity and shock resistance.

APPLICATIONS

- Electronics
- Encapsulation
- Potting

FEATURES

- RoHS & REACH Compliant
- UV Gel
- High Temperature Resistant
- Humidity Resistant

SUBSTRATES

- Metals
- Rubber
- Plastic

PACKAGING

- Dual Cartridges
- Bulk

TYPICAL PROPERTIES OF UNCURED MATERIAL

| Property | Value, Part A | Value, Part B |
|------------------------------|----------------|----------------|
| Chemical Class | Epoxy | Amine |
| Appearance | Clear | Clear |
| Viscosity, 10 RPM 25°C, cps | 1,000 to 2,000 | 2,000 to 3,000 |
| Viscosity, 100 RPM 25°C, cps | 1,000 to 2,000 | 2,000 to 3,000 |
| Specific Gravity | 1.13 | 1.09 |
| 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 | 5,000 |
| Hardness, Shore | D80 |
| Ultimate Tensile Strength, PSI | 4,000 |
| Elongation at Break, % | 6 |
| Operating Temperature Range, °C | -10 to 140 |
| Volume Resistivity, Ω-cm | 1 x 10 ¹⁵ |

***All properties given are typical values and are not intended for use in preparing specifications.**

CURE OVERVIEW

| | |
|---------------------------|-------------------|
| Gel Time (15cc mass), Min | 15 |
| Cure Options: Hr @ 25°C | UV Gel; 24 |
| Cure Options: Hr @ 65°C | UV Gel; 1.5 |
| Cure Options: Hr @ 100°C | UV Gel; 0.5 |
| Clean-Up Solvent | Isopropyl Alcohol |

SHELF LIFE, STORAGE

18 ± 10°C 1 Year DOM

MATERIAL IS LIGHT SENSITIVE. CONSULT SDS FOR SAFE HANDLING RECOMMENDATIONS.

THIS MATERIAL IS SOLD FOR INDUSTRIAL USE ONLY

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