

HumiSeal® Vivid Cure™ 806-VLS

Technical Data Sheet

LOW STRESS UV CURE ADHESIVE

Fast curing, water white clear, urethane acrylate designed for utilization as an LCD interface adhesive. This product is a soft, flexible, low modulus polymer that provides a high amount of bond strength without imparting stress. This is a non-yellowing adhesive that exhibits excellent resistance to moisture.

APPLICATIONS

- Touch Screen Displays
- LCD
- Large Format Displays
- Consumer Displays
- Medical Devices

FEATURES

- RoHS & REACH Compliant
- GB 33372-2020 Compliant
- Non-Yellowing, No-Haze
- Low Stress Adhesive
- Ultra -Low Shrinkage
- UVA Curable

SUBSTRATES

- Plastics
- Glass
- Metals

Typical Properties of Uncured HumiSeal® Vivid Cure™ 806-VLS

| | |
|---|-------------------|
| Chemical Class | UV Acrylate |
| Appearance | Clear |
| Viscosity @ 25°C, Spindle 5 @ 20 RPM, cps | 1,900 to 3,100 |
| Specific Gravity | 0.87 - 0.93 |
| Cleanup Solvent | Isopropyl alcohol |

UV Curing Guidelines*

HumiSeal Vivid Cure™ 806-VLS adhesive has been formulated to allow flexibility in the curing process. HumiSeal Vivid Cure™ 806-VLS can be cured using 395nm LED systems. The table below details minimum dosage values required to properly crosslink HumiSeal Vivid Cure™ 806-VLS.

“Note, adhesive thickness range of 700 – 750 microns was used during the development of the minimum required dosage values recommended below. If a different adhesive thickness is used, process adjustments may be required.”

| Vivid Cure™ 806-VLS Recommended Minimum Dose (J/cm ²) Requirements | |
|--|-----|
| Wavelength (nm) | UVV |
| 395nm | 5.0 |

Values measured with an EIT Powerpuck II

** These values are for guidelines only and not meant to be used as a specification*

It is recommended that you contact Humiseal technical support to discuss your application and review the required recommended minimum cure requirements.

Typical Properties of Cured Material**

| | |
|--|----------------|
| Tensile Modulus @ -60°C, MPa | 100 to 500 |
| Glass Transition Temperature (Tg), °C | -40 to -45 |
| Linear Shrinkage, % | < 1 |
| Refractive Index | 1.459 to 1.470 |
| Haze, %, per ASTM D1003 | < 0.2 |
| Total Luminous Transmittance, %, per ASTM D1003 | > 99 |
| Color Coordinate, b* | 0.03 |
| Dielectric Constant / Dissipation Factor @ 200 KHz | 2.94 / 0.045 |
| Dielectric Constant / Dissipation Factor @ 400 KHz | 2.65 / 0.044 |
| Dielectric Constant / Dissipation Factor @ 800 KHz | 2.86 / 0.042 |
| Dielectric Constant / Dissipation Factor @ 1 MHz | 2.79 / 0.046 |
| Operating Temperature Range, °C | -50 to 125 |

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

Storage & Handling

HumiSeal Vivid Cure™ 806-VLS should be stored between 8°C - 28°C in tightly closed, light-blocking containers, away from direct sunlight. Keep from freezing. Allow material to equilibrate to process area temperature for 24 hours before use. Please refer to product labeling for shelf-life information. While the material can be heated to facilitate degassing prior to use, this operation should be conducted only on the amount of adhesive to be immediately used. Multiple heating cycles of the bulk container or elevated temperature storage of HumiSeal Vivid Cure™ 806-VLS should be avoided. Consult SDS for full safety information.

*Values measured with a Powerpuck II UV radiometer

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