

HumiSeal[®] 2E25 Epoxy Adhesive Technical Data Sheet

HumiSeal[®] 2E25 is an unfilled epoxy resin system useful for adhesive and encapsulant applications. HumiSeal 2E25 is a very good electrical insulator and is resistant to gases, water, petroleum products, and acids. FDA compliant in accordance with Title 21. U.S. Code of Federal Regulations, FDA Chapter 1, Subpart B, Sections 175, 105 and 175, 300.

APPLICATIONS

- Medical
- Automotive
- Electronics

FEATURES

- RoHS & REACH Compliant
- FDA Compliant

SUBSTRATES

- Glass
- Rubber
- Metals
- Plastics

Properties of HumiSeal[®] 2E25 Liquids

| | |
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| Chemical Class | Epoxy |
| Viscosity Part A (cps) | 10,000 -14,000 |
| Viscosity Part B (cps) | 14,000 -16,000 |
| Specific Gravity at 25°C (Part A / Part B) | 1.16 / 0.98 |
| Mix Ratio, PBV (A:B) | 1:1 |
| Working Time | 1 hour |
| Handling Time | 2 hours |
| Cure Type | 2-part reactive epoxy |
| Curing Conditions | 12-24h @ Room Temp. 2h @ 70 °C 1h @ 100 °C |
| Shelf Life, DOM, stored at 18 +/-10 °C | 12 months (bulk) 6 months (cartridges) |
| Cleanup Solvent | Isopropyl alcohol |

Properties of HumiSeal[®] Cured 2E25

| | |
|------------------------------------|----------------------|
| Color (cured) | Translucent amber |
| Hardness, Shore D | 64-80 |
| Lap Shear Strength (aluminum, PSI) | > 2,500 |
| Tensile Strength, PSI | >7000 |
| Elongation at Break | 10 |
| Operating Temperature Range | -40 to 200* °C |
| CTE (at 46°C), ppm | 168 |
| CTE (at 66°C), ppm | 413 |
| Volume Resistivity, Ω-cm | 1 x 10 ¹¹ |

*Material can be exposed to intermittent temperatures up to 250 °C

Storage

HumiSeal[®] 2E25 Part A and 2E25 Part B should be stored between 8 °C and 28 °C in tightly closed containers.

Caution

Application of HumiSeal[®] 2E25 should be carried out in accordance with local and national health and safety regulations. Use only in well-ventilated areas to avoid inhalation of vapor. Avoid contact with skin and eyes. Consult SDS prior to use.

Contact HumiSeal®

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