

Leepoxy Plastics, Inc.

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TELECOMMUNICATION MODULE ENCAPSULANTS

TWO-PART EPOXIES

LEECAST E15095-2 **Class 150**

Filled Two-Part High Voltage Epoxy Encapsulant

A two-part, medium viscosity epoxy combining good thermal conductivity, excellent dielectric properties and flame retardance. Used in UL-listed high voltage applications requiring excellent electrical performance, heat dissipation, and flame retardance. Long pot life and low shrinkage allows for practical manual mix dispensing and large volume casing/potting.

- **LEECAST E15095-3 **Class 125****
Lower viscosity version of LEECAST E15095-2. Similar electrical and physical properties.

ONE-PART HEAT CURED EPOXIES

LEECAST E36237-1 **Class 120**

Unfilled One-Part Very Latent Epoxy Encapsulant

A low viscosity, one-part system with 2-month shelf life in 5-gallon mass. Produces castings with outstanding electrical properties. Used for potting, casting, vacuum impregnation and encapsulation of components subjected to high voltages at high temperatures.

LEECAST E36237-2 **Class 135**

Unfilled One-Part Very Latent Epoxy Encapsulant

A low viscosity, one-part system with 2-month shelf life in 5-gallon mass. Produces castings with outstanding electrical properties and exterior durability. Used for potting, casting, vacuum impregnation and encapsulation of components subjected to high voltages at high temperatures. Mechanical properties and chemical resistance of cured castings are excellent.

TWO-PART URETHANES

LEECAST U23130-5 **Class 110**

Unfilled Tough Shore 50A, 400% Elongation Urethane Encapsulant

A two-part, Shore 50A, low viscosity, room temperature curing urethane with good low temperature flexibility (Shore 70A at 40°F). Impressive 400% elongation at room temperature. Non-re-enterable encapsulant with excellent dielectric properties and hydrolytic stability. Used for encapsulating glass diodes, pressure-sensitive electronic components, and fragile electrical circuitry in UL-listed products. Excellent resistance to water and chemicals and to thermal and mechanical shock, and excellent electrical properties. Adhesion to synthetic rubber wire or cable coatings, plastic module casings, and pc board housings is outstanding, as is tear or cut resistance. For high volume, high throughput processing utilizing automatic meter-mix-dispense equipment, LEECAST U23130-5 can be tailored to any practical pot life/cure time combination, without affecting any handling or performance property other than reactivity. Contains no MOCA or TDI.

- **LEECAST U20073-1 **Class 110****
More convenient 4:1 by weight mix ratio version of LEECAST U23130-5, for manual measure-mix-dispensing
- **LEECAST U22133-1 **Class 115****
Filled, more viscous version of LEECAST U23130-5 for reinforced protection to fragile encapsulated electronic components.
- **LEECAST U22221-1 **Class 110****
Unfilled, medium viscosity, 1:1 mix version of LEECAST U23130-5. Higher tensile strength and less elongation (250%).

- **LEECAST U30218-1** **Class 120**
Filled, flame-retardant, medium viscosity, Shore 80A version of LEECAST U23130-5 with very similar, outstanding electrical properties. For potting electronic components in UL-listed consumer appliances.

LEECAST U32129-1 **Class 135**
Filled Two-Part Shore 55D Flame Retardant

A two-part, Shore 55D urethane with medium viscosity, 4:1 mix by weight, excellent thermal conductivity and resistance. Low exotherm and low shrinkage during cure, Fast potted part turn-around/quick de-mold cycle. For potting electrical components in UL-listed consumer appliances and automotive “under the hood” where flame retardance, hydrolytic stability, reversion resistance, and electrical and physical performance are critical.

LEECAST U30152-1 **Class 90**
Filled Two-Part Shore 60D Urethane Encapsulant

A two-part, rigid (Shore 60D with post cure), tough, 2:1 by weight mix urethane. Retains most physical properties to 100°C. Good electrical properties. Available with pot lives ranging from 5 minutes up to 50 minutes. Rapid de-mold time even with maximum work life version. Contains no MOCA or TDI.

Note: Leepoxy can formulate all of its two-part urethane encapsulants to provide any practical pot life/cure time combination without affecting any handling or performance property other than reactivity.