

# Leepoxy Plastics, Inc.

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## FRACTURE-RESISTANT CASTING COMPOUNDS

### **TWO-PART URETHANES**

#### **LEECAST U23130-5**

##### **Unfilled Tough Shore 50A, 400% Elongation Urethane Casting Compound**

A two-part, Shore 50A, low viscosity, room temperature curing urethane with good low temperature flexibility (Shore 70A at 40°C). Impressive 400% elongation at room temperature. Excellent resistance to water and chemicals and to thermal and mechanical shock, and excellent electrical properties. Adhesion to synthetic rubber wire or cable coatings is outstanding, as is tear or cut resistance. For high throughput processing utilizing automatic meter-mix-dispense equipment, LEECAST U23130-5 can be accelerated to any practical pot life/cure time, without affecting any handling or performance property. Contains no MOCA or TDI.

- **LEECAST U20073-1**  
More convenient 4:1 by weight mix ratio version of LEECAST U23130-5, for manual measure-mix-dispensing
- **LEECAST U22133-1**  
Filled, more viscous version of LEECAST U23130-5.
- **LEECAST U22221-1**  
Unfilled, medium viscosity, 1:1 mix version of LEECAST U23130-5. Higher tensile strength and less elongation (250%).
- **LEECAST U30218-1**  
Filled, flame retardant, medium viscosity, Shore 80A version of LEECAST U23130-5 with very similar, outstanding electrical properties.

#### **LEECAST 32129-1**

##### **Filled Two-Part Shore 55D Flame Retardant Urethane Casting Compound**

A two-part, Shore 55D urethane with medium viscosity, 4:1 mix by weight, excellent thermal conductivity and resistance. Low exotherm during

cure. Fast part turn-around/quick de-mold cycle. Excellent flame retardance, hydrolytic stability, reversion resistance, and electrical and physical performance.

#### **LEECAST U30152-1**

##### **Filled Two-Part Shore 60D Urethane Casting**

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.

#### **LEECAST U30125-1**

##### **Filled Two-Part Shore 90D Urethane Casting**

A two-part, hard (Shore 90D) two-part urethane that develops full hardness in overnight at room temperature. Processing can be accelerated with heat cure. Features 4:1 mix by weight. Medium viscosity allows bubbles to rise and escape within 5 minutes. For casting sturdy electronic and electrical components or over-coating conformal-coated pressure sensitive components subject to high impact, high physical stress environments up to 125°C. Contains no MOCA or TDI.

**Note: Leepoxy is a custom formulator of urethane encapsulants and can provide any practical pot life/cure time without affecting any handling or performance property other than reactivity.**