

# KETENCI PU-301 Electrical Insulation Resin

## TECHNICAL DATA SHEET (TDS)

KETENCI PU-301 is a two-component, solvent-free, low-viscosity, black polyurethane resin designed for the insulation, potting, and encapsulation of electrical and electronic components. It provides high dielectric strength, excellent moisture resistance, and mechanical stability for long-term protection in demanding applications.

### Chemical Composition

Component A (Resin): Polyols, fillers, and pigment-based resin blend

Component B (Isocyanate): Aromatic isocyanate (PMDI)

Mixing Ratio (A:B): 3:1 (by weight)

### Physical Properties

Property	Typical Value	Test Method
Appearance	Black (opaque)	Visual
Mixed Viscosity (25°C)	1800 - 2500 mPa·s	DIN 53019
Pot Life (25°C)	15 - 25 min	ISO 1675
Hardness (Shore D)	75 - 80	DIN 53505
Density (g/cm <sup>3</sup> )	1.15 - 1.20	DIN 53479
Dielectric Strength	>20 kV/mm	IEC 60243
Moisture Resistance	Excellent	-

### Applications

- Transformer, coil, and sensor potting
- Electronic circuit protection (potting & encapsulation)
- Power module and connector insulation
- General electrical insulation and casting applications

### Storage and Shelf Life

Store in a dry, cool environment away from direct sunlight. Shelf life: 6 months in original, unopened containers at 20-25 °C.

### Health and Safety

Contains isocyanates. Use gloves, safety glasses, and a mask during handling. Refer to the Safety Data Sheet (SDS) for detailed information.

### Manufacturer Information

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