

Bonding Lithium Battery Systems for Motorsport IRS 3071

Application

Bonding lithium-ion cells into bespoke battery packs for motorsport.

Substrates bonded ABS, Aluminium and Copper

Process Bonding and Encapsulation

Pre-treatment None

Curing conditions

- Room temperature cure
- Handling strength in 24 hours
- Full cure in 48 hours

Resistances required

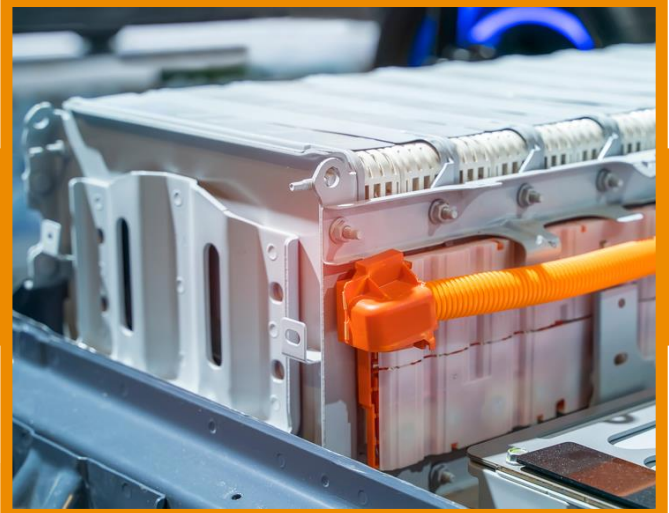
- Flame retardant to UL94 V-0

Key selection criteria

- Thermally conductive to 0.75 W/mK
- Long pot life

Customer benefits

- Adds circuits protection at low additional cost
- Thermally conductive material dissipates heat during operation of battery pack
- Flame retardancy limits risk of cell run away in the event of a crash



Product description

IRS 3071 Polyurethane Potting Compound is a semi-rigid, room temperature curing, flame retardant and thermally conductive polyurethane potting compound. Specifically designed for the cost-effective encapsulation of a variety of low to medium voltage electrical and electronic applications, the material is medium viscosity, flame retardant to UL94 V-0 at 6mm and has excellent adhesion to a wide range of substrates.

Features and benefits:

- Cost effective
- Thermally conductive for a variety of low to medium voltage applications
- Flame retardant to UL94 V-0 at 6mm
- Medium viscosity
- Resistant to UV, water-based cleaning chemicals, motor oil, lubricants, and most dilute acids and alkalis
- RoHS & WEEE compliant

Suitable in applications involving:

- Electronics potting
- Electronics IP protection
- Thermal management



Let's start by talking about your application

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