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Application Insight
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Potting Industrial LED Beacons
IRS 3071



Application

Encapsulating miniature PCB's in various signalling devices for industries including logistics, oil and gas, rail, security, process control and public transport.

Substrates bonded	Flame retardant and UV stable ABS
Process	Potting 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	▪ Long pot life ▪ Cost effective ▪ Thermally conductive to 0.75 W/mK ▪ Non-toxic and RoHS compliant
Customer benefits	▪ Adds circuits protection at low additional cost ▪ Thermal conductivity helps manage reliability of components ▪ Flowable viscosity enables complete coverage, even in hard-to reach areas ▪ Room temperature cure negates need for curing ovens

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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