

## IRS 3071

Flame retardant  
polyurethane  
potting compound



### Our customer

STOPFREEZE

### Customer benefits

- Flame retardant
- Protection from damage
- Cost effective

## Potting compound protects trace heating system thermostats

During the development process of STOPFREEZE's COMBI and KIT products, they needed a method of protecting the IP67 weatherproof in-line thermostat with integral LED indicators from water ingress and physical damage in its outdoor situation. The products were used in pipe frost protection applications and with winters reportedly getting colder, trace heating systems were finding greater demand.

Applications such as farms, caravan parks and camp sites, stables, lofts, garages, holiday homes and lodges, nurseries, outbuildings and sheds all benefit from such systems being in place, thus the need to protect the in-line thermostat was of paramount importance. Their remedy came in the shape of one of our polyurethane potting compounds, together with metering and mixing equipment for production filling of the thermostat housing.

Given the often arduous environments, we recommended IRS 3071 Potting Compound, which is a semi-rigid, room temperature curing, flame retardant polyurethane resin system. It was chosen because it is a simple and inexpensive option and is specifically designed for the encapsulation of a variety of low to medium voltage electrical and electronic applications. The system offers medium viscosity, flame retardation to UL94 V-0 at 6mm and excellent adhesion to a wide range of substrates. IRS 3071 is resistant to UV, water-based cleaning chemicals, motor oil, lubricants and most dilute acids and alkalis.

Paul Whitehead, our Key Account Manager, describes his thoughts:

*(continued on next page)*

*“IRS3071 was suggested because it is a cost-effective way of environmental protection and void free encapsulation. It has the added benefit of adhering to the enclosure making it difficult to disassemble the enclosure without damage.”*

Explained Neil Fairburn of STOPFREEZE Eltrace:

*“We were looking for a potting system that was going to be superior to others used in the industry while being easy to use so that we could ensure consistently high quality, performance and reliability. The Intertronics system has been key to market acceptance of our STOPFREEZE in-line thermostat kits and allowed us to offer a simple and inexpensive solution especially suited to the residential market.”*

### IRS 3071 potting compound

- Flame retardant to UL 94 V-0 at a depth of 6mm
- Long pot life
- Cures at room temperature or with heat
- RoHS & WEEE compliant
- High thermal conductivity

**Applications include:** Electronics, thermal transfer, thermal management, general purpose potting



Contact us for more information on our  
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