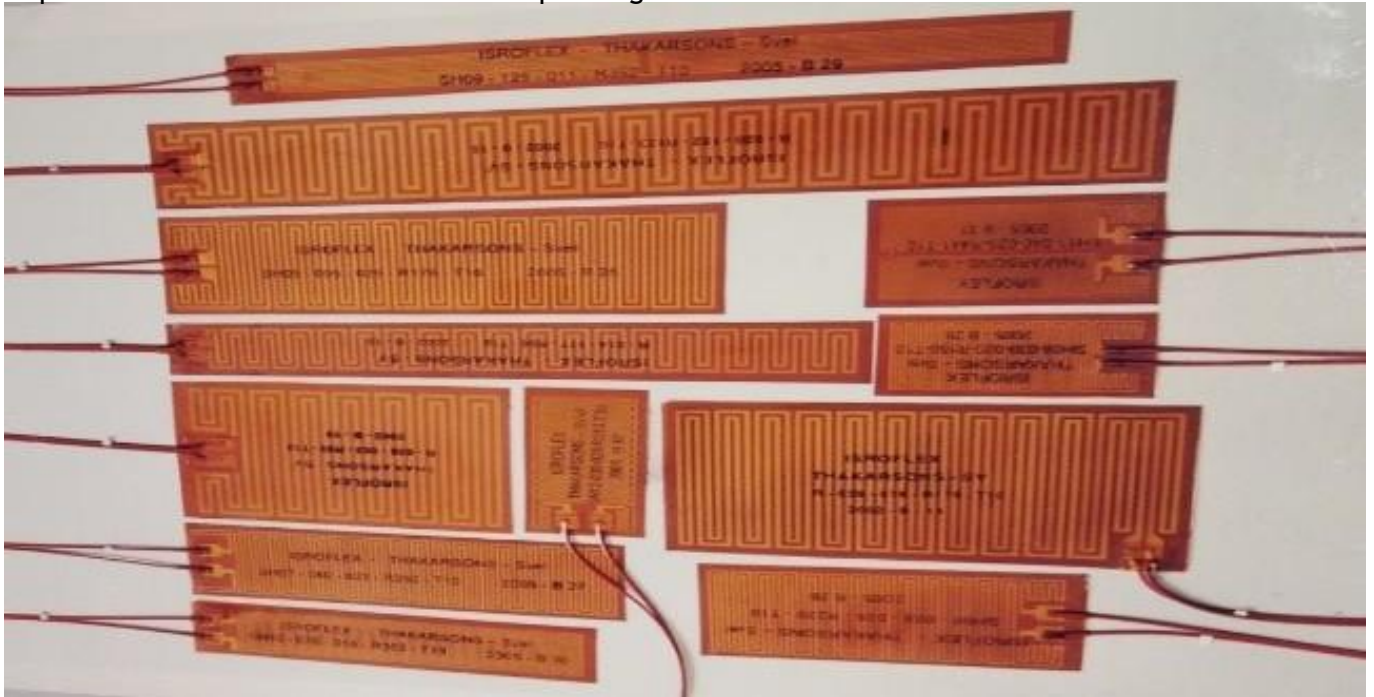


Foil Heaters using Pyralux® Adhesive

U R Rao Satellite Centre (URSC) of Indian Space Research Organisation (ISRO) has developed Kapton® Foil heaters using Pyralux adhesive for power rating of 2.5 Watts per square inch. Using the technology, heaters of different sizes and resistances are fabricated, tested and implemented on the satellite components for temperature rise so that components are maintained above its lower operating limit.



Specifications:

Foil heaters

- The heaters are thin flexible heating elements laminated between insulating layers of Kapton®
- Heater sizes and Resistances can be varied as per the requirement.
- Heaters are qualified to NASA-GSFC-S-311-79 standard.
- Heaters of insulation resistance more than Gohm.
- Dielectric strength is more than 500 Vrms.

Major Specifications:

Power Rating	: 2.5 Watts per sq.in in still air
Heater leads	: 26AWG, Kapton insulated and 0.5 m long
Resistance tolerance	: ±10%
Operating temperature range	: -65 OC to +150 OC
Mounting Method	: Using transfer adhesive

Technology Transfer from ISRO

ISRO is willing to offer the knowhow of this technology to suitable entrepreneurs / industries in India. Capable manufacturing industries interested in acquiring this knowhow may write with details of their present activities, requirements and plans for implementation, infrastructure and technical expertise available with them, their own market assessment, if any, and plans for diversification to the address given below: