

Case Study

# Thermal Design Prototypes

## Background

ReliSource has worked with a globally renowned Cold Chain Packaging service provider to create thermal design prototypes for 3 different payload sizes considering Controlled Room Temperature (15C-25C) as per ISTA-7D 120 Hours thermal profile.

## Solution

- ReliSource provided a new & more efficient package configuration which significantly improved performance with lesser amount of PCM and reduced pressure on payload.
- Thermal model/simulation as per ISTA-7D 120H summer and winter profile
- Improved structural integrity & better protection of payload from external load/pressure.
- Created multiple design variations using different types and amount of VIP & PCM to demonstrate the impact over performance.
- Perform general simulation performance test as per ISTA-3A standards.
- Utilized local manufacturers for RSC & EPS to provide better quality and cost efficiency.

