CASE STUDY

P-THERM® PS-1545 in Automotive Infotainment Module

POLYMER SCIENCE, INC.

COMPANY

Designer and manufacturer of automotive in-dash infotainment solutions for advanced navigation, intuitive user interfaces, integrated audio and device connectivity.

Representation of an automotive infotainment module

THE APPLICATION

The design of the infotainment module required heat removal from a heat source to the metal housing which acted as a heat sink to dissipate the heat and keep the module operating at a safe temperature. The design required a soft thermally conductive material at various contact points within the module.

THE SOLUTION: P-THERM® PS -1545, a 5W/mK soft silicone-based gap filler, die-cut into 14mm squares. The customer also required the material in a red color so that it could be recognized by their automatic inspection cameras during the manufacturing process.

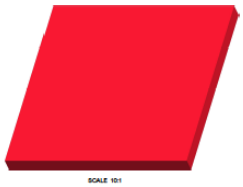
WHY POLYMER SCIENCE?

Custom Color - Polymer Science created the P-THERM® PS-1545 in a custom red color specifically made for this customer based on their requests and requirements.

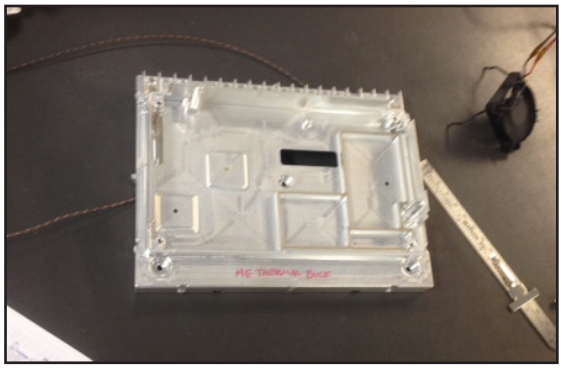
Quick Response – Polymer Science responded very quickly to the customer's requests for samples and prototypes to test with their product, enabling the customer to meet design deadlines and to keep the project on track.

Technical Support – Representatives with Polymer Science traveled to the customer to meet with the design engineers providing material information, answering questions and providing support in person.

Material Performance - P-THERM® PS-1545 gap filler met all of the performance standards of the application.



Renduring of the PS-1545 thermal gap pad in custom red color



The metal housing of the in-dash infotainment module where the gap pads are placed