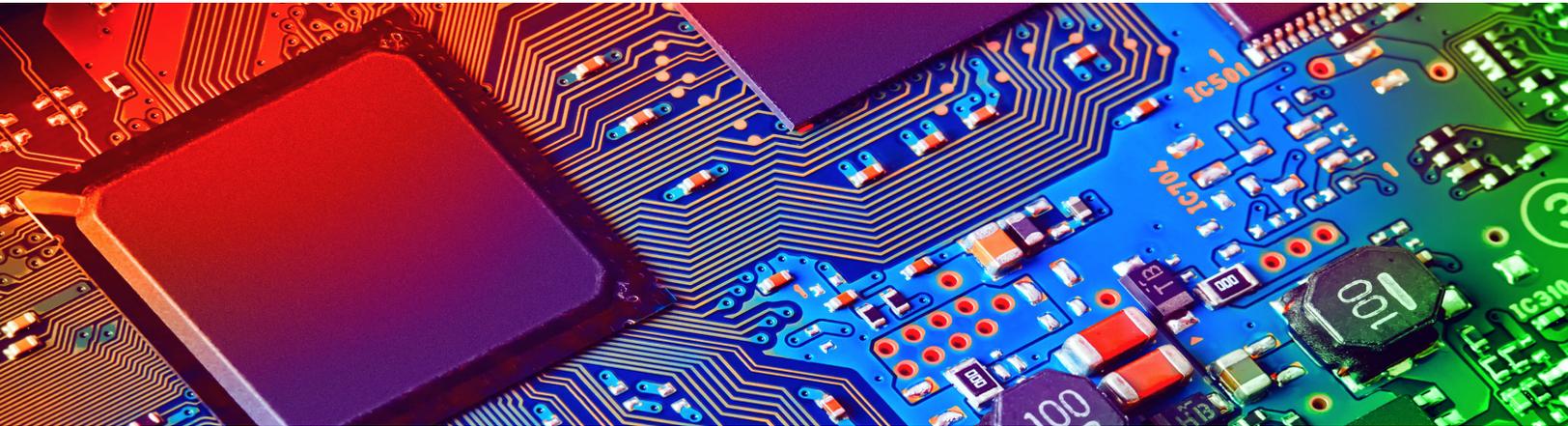




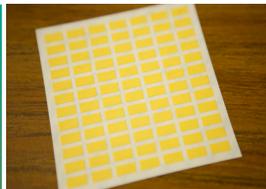
P-THERM® Thermal Management Materials



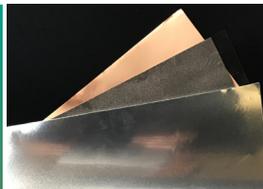
P-THERM® thermal interface materials are designed to efficiently and effectively aid in the conduction of heat in today's electronic designs. We offer thermal gap fillers, heat spreaders, phase change materials, electronic control interface materials and conductive tapes and adhesives.



P-THERM® gap filler materials have been designed to achieve desired heat management properties to keep components at optimized operating temperatures in today's advanced electronics designs.



P-THERM® thermally conductive phase change materials perform like thermal grease with the convenience of a thermal pad.



Proper heat dissipation is critical in today's compact electronic devices. P-THERM® heat spreaders allow for quick dissipation of heat in the x-y direction.



All P-THERM® tapes and adhesives offer reliable adhesion and conductive properties across a wide temperature range.



P-THERM® ECIs offer good dielectric and thermally conductive properties without the worry of flow from wax-based products or mess associated with thermal grease.

Markets Served



- Consumer Electronics
- Lighting
- Automotive
- Marine
- Electric Vehicle
- Solar Energy

Polymer Science provides pressure sensitive adhesives (PSAs) and coated materials to meet the complex needs of electronic component designs. Our diverse offering of materials provide solutions to many bonding applications that increase reliability and decrease production costs.

Our team of highly skilled engineers and technical staff, in conjunction with our state-of-the-art equipment, provide you with a quality product that is consistent with your application requirements.

Our design team works quickly to provide the solutions you need, allowing your project to expeditiously move from conception to commercialization giving you the edge to ensure your next project is a success.

Characteristics of P-THERM® Thermal Management Materials

Gap Fillers



- Material Supplied on Rolls or Sheets
- Silicone and Non-Silicone Options Available
- Thermal Conductivities Range from 1 -5 W/m K
- Typical Thicknesses Range from 0.10mm - 5.0mm
- Durometer Range (Shore 00): 5 -80 based on product type
- Various Colors Available
- UL V-0 Rated

Phase Change Materials



- Thermal Conductivity of 4 W/m K
- Non-Silicone Polymer Blend
- Tacky for Ease of Use
- Low Dripping
- Excellent Converting Properties
- Available on a Polyimide Carrier to Enhance Dielectric Strength

Heat Spreaders



- Conductive Acrylic Pressure Sensitive Adhesives
- Thin Profiles
- High Adhesion to Low Surface Energy Substrates
- Aluminum Foil, Copper Foil, Polyester and Synthetic Graphite Options Available

Tapes and Adhesives



- Single and Double Coated Adhesive Configurations
- High Bonding Strength
- High Temperature Resistance
- Efficient Heat Dissipation
- Low Stress on Components
- Low VOC Options
- Foil, Fiberglass and Transfer Adhesive Supports Available

Electronic Control Interface Materials (ECI)



- Silicone and Non-Silicone Options Available
- High Dielectric Breakdown
- Thermally Conductive
- High Temperature Resistance
- Good Flexibility