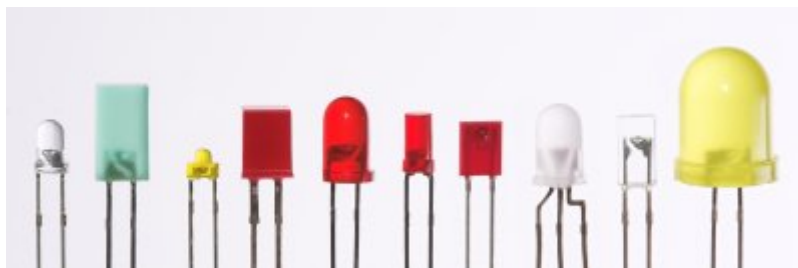


Silicones and LEDs - removing heat and enhancing light

Optics and packaging are playing an ever more important role when designing **LED-based products** which are both efficient and maintain performance over long periods of time. Silicone elastomers have proven themselves to be versatile in solving a variety of design and production issues.

These include **Optically Clear Encapsulants**, a range of gels with differing cure cycles and physical properties. Together with harder silicone elastomers we can offer a product for most LED potting applications which require optical clarity.

Dissipating unwanted heat away from the diode to a suitable heat sink is essential for overall performance and can easily be achieved by selecting a [thermally conductive silicone encapsulant](#). When selecting a thermally conductive encapsulant there is always a trade off between flexibility and thermal conductivity, due to the nature of the fillers used – as you raise the conductivity you will also see a rise in hardness.



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