



Polymer Systems Technology Limited

SILICONE MATERIALS FOR POTTING AND ENCAPSULATING

These versatile silicones provide durable support and protection in electronic and photonic applications.



LS2-6140 used in a 1.2 W package



R-2175 potting an electronic unit

PST High Wycombe, — (<https://www.silicone-polymers.com>), a UK leader in silicone materials for the medical implants, aerospace, electronics and engineering is promoting two silicone products. **LS2-6140**, an optically clear primerless encapsulant, and **R-2175**, a flowable, thermally stable potting compound, as part of concentrated efforts to increase market specialization in the fast-paced industries sectors it serves.

LS2-6140 is a low viscosity, optically clear silicone encapsulant that offers strong adhesion to ceramic and common plastics used for electronic components without the need for primer. This versatile elastomer has a 45 Type A durometer and is optically stable with a refractive index (RI) of 1.40. Ideal for use in High Power and UV LED applications, it can be used to bond or encapsulate optical components that will be exposed to high lumen intensity at elevated temperatures. The low viscosity of **LS2-6140** allows for processing by way of spin coating, dispensing, casting or compression molding.

R-2175 is a black, pourable, versatile silicone potting compound adept at providing support for electronics packages such as power supplies, sensors, and AC/DC and DC/DC high efficiency converters. Its rheology yields a conformal material that works well with complex geometries and its 0.4 W/mK thermal conductivity helps dissipate heat. **R-2175** comes in a variety of packaging configurations to ease transition into any manufacturing environment.

LS2-6140 and **R-2175** are unique materials designed to support and protect photonic and electronic systems. **PST is pushing forward and developing such products** for Engineering, Electronics, and Photonics in an expanding silicone technology world, offering to meet the growing needs of these industries.

LS2-6140 and **R-2175** have been tested per UL 94 and passed V0 and are REACH and ROHS compliant.

For more information to look at the mixing, processing cure mechanical properties of these materials, please contact POLYMER SYSTEMS TECHNOLOGY LTD ON 01494 446610 OR ON EMAIL: sales@silicone-polymers.co.uk



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