FLEXIBLE ELECTRICAL INSULATION MATERIALS

KARL SCHUPP AG

CONDUCT – PROTECT – INSULATE



Thermal management is of central importance in current and future electronics development due to increasing miniaturization and power density. Overheating must be avoided, as this can drastically shorten the service life of components and lead to the failure of entire assemblies. The solution to this problem is heat conducting films. They ensure efficient heat exchange between electronic components and parts and at the same time have a high dielectric strength.

Thermally conductive Films

Kapton® MT

Kapton® MT is a frequently used and very efficient insulation foil with excellent mechanical properties, which is also thermally conductive. Other heat conducting foils based on copper and aluminum foils are mainly used as "heat spreaders" to quickly distribute localized heat development over a large area.

Applications

- Kapton® MT protects your electronic components with very good dielectric values combined with good thermal conductivity
- Kapton® MT+ - is the ideal solution for voltage-resistant, thermally conductive insulation in LED technology
- Kapton® MT+ is the ideal combination: almost 1 W/mK through the film

Silicone foils

Silicone foils, made of soft, thermally conductive material and with high flexibility, are also an option for dissipating heat with high dielectric strength.

These thermally conductive foils are also available in adhesive versions and as die-cut parts.

For more information, please contact us.