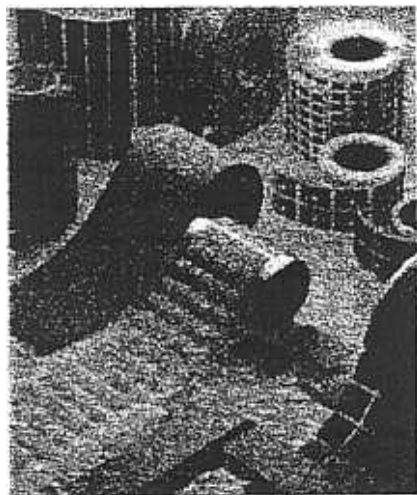


# Sil-Pad KA-10<sup>TM</sup>

## The High Performance T-Film<sup>TM</sup> Based Insulator

Bergquist Sil-Pad KA-10 is the highest performance insulator that utilizes Bergquist's dielectric material T-Film<sup>TM</sup>. KA-10 combines T-Film with a very compliant, high thermal performance silicone rubber. The result is a product with good cut-through properties and excellent thermal performance.

KA-10 is designed to meet the thermal and electrical requirements of the most demanding applications.



### SPECIAL THICKNESSES

Sil-Pad KA-10 is available in a variety of thicknesses to meet customer requirements.

**TOLERANCES:** .015 inches are held on width, length, hole diameter and hole location. Contact the factory if tighter tolerances are required.

**SHEETS:** 6" x 6", 6" x 12", 8" x 8", 10" x 10", or 12" x 12" sheets are available from stock, with or without adhesive.

**ROLLS:** Sil-Pad materials are available in roll form, with or without adhesive. Contact the factory.

**SPECIAL SHAPES:** We produce thousands of specials. Tooling charges are minimal for simple parts. Increased complexity or tighter Tolerances increase tooling charges.

### TYPICAL PROPERTIES OF SIL-PAD<sup>®</sup> KA-10

| PROPERTY                                    | TYPICAL VALUE        | TEST METHOD |
|---|----------------------|-------------|
| Color                                       | Beige                |             |
| Thickness, Inches                           | 006±001              | ASTM D374   |
| Thermal Resistance, °C/Watt/in <sup>2</sup> | 0.2                  | ASTM D5470  |
| Volume Resistivity, Ohm Metre Min.          | 1.0x10 <sup>10</sup> | ASTM D257   |
| Breakdown Voltage, Volts a-c Min.           | 4000                 | ASTM D149   |
| Dielectric Constant, @ 1000 Hz              | 3.7                  | ASTM D150   |
| Continuous Use Temp. °C                     | -60 to +150          | -           |
| Thermal Conductivity W/m-K                  | 1.3                  | ASTM D5470  |
| Breaking Strength, Lbs/inch                 | 15                   |             |
| kN/m  | 2.5                  | ASTM D1458  |
| Elongation, % 45° to warp and fill          | 7                    | ASTM D882A  |
| Hardness, Shore A                           | 90                   | ASTM D2240  |
| Construction                                | Silicone/T-Film      |             |
| Tensile Strength, kPsi                      | 11                   | ASTM D882A  |

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