

# U 80 & U 90

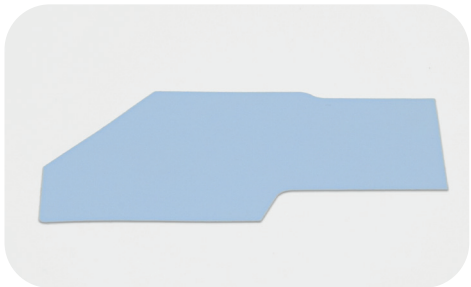
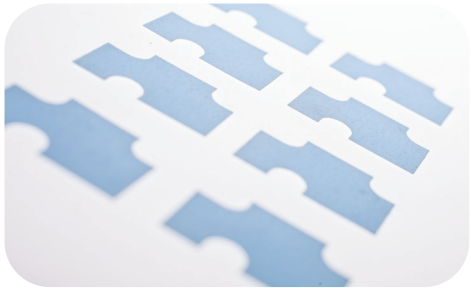
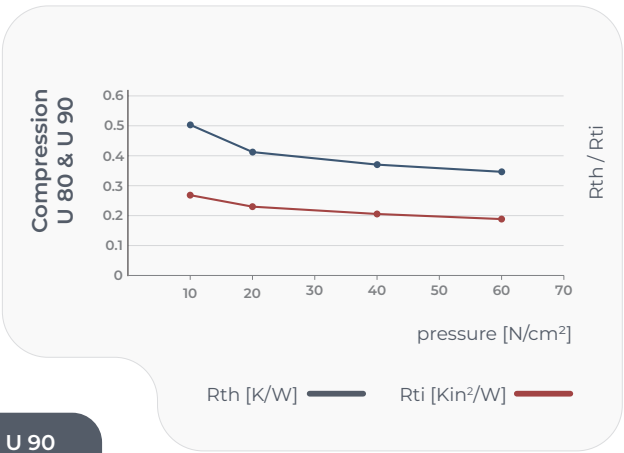
## KERATHERM<sup>®</sup> silicone free Thermal Tape

### Benefits

- Silicone free (polyurethane)
- Very high thermal performance
- Good ratio between thermal performance and electrical isolation
- Softening effect for an additional increase in heat output
- Non sticky, available with adhesive coating

| Properties                               | Unit              | U 80                   | U 90                    |
|------------------------------------------|-------------------|------------------------|-------------------------|
| Colour                                   |                   | blue                   | light blue              |
| Thermal Properties                       |                   |                        |                         |
| Thermal resistance $R_{th}$              | K/W               | 0.2*                   | 0.082**                 |
| Thermal conductivity $\lambda$           | W/mK              | 1.8*                   | 6.0**                   |
| Electrical Properties                    |                   |                        |                         |
| Dielectric breakdown voltage $U_{d, AC}$ | kV                | 4.0*                   | 4.0**                   |
| Volume resistivity                       | $\Omega m$        | $1.4 \times 10^{14}$ * | $2.0 \times 10^{11}$ ** |
| Dielectric loss factor $\tan \delta$     |                   | $1.3 \times 10^{-2}$ * | $1.4 \times 10^{-2}$ ** |
| Dielectric constant $\epsilon_r$         |                   | 3.2*                   | 3.1**                   |
| Mechanical Properties                    |                   |                        |                         |
| Hardness                                 | Shore A           | 80 - 90                | 70 - 85                 |
| Tensile strength                         | N/mm <sup>2</sup> | 3.0                    | 2.0                     |
| Elongation                               | %                 | 130                    | 150                     |
| Physical Properties                      |                   |                        |                         |
| Application temperature                  | °C                | -40 to +125            | -40 to +125             |
| Density                                  | g/cm <sup>3</sup> | 2.26                   | 1.46                    |
| Flame rating                             | UL-94             | V-0                    | V-0                     |
| Possible thickness                       | mm                | 0.15 - 0.3             | 0.1 - 0.3               |

\* Measured @ thickness 0.15 mm    \*\* Measured @ thickness 0.2 mm



✓ Optional available with adhesive coating **U 80K / U 90K**