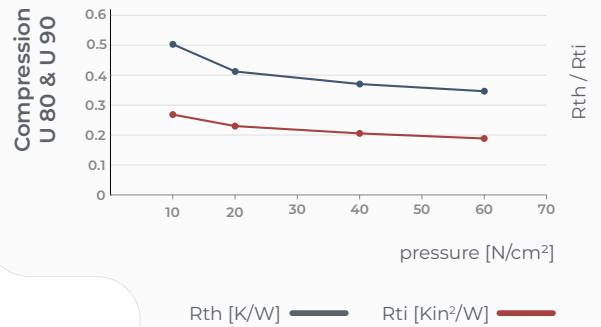


# U 80 & U 90 KERATHERM<sup>®</sup> silicone free Thermal Tape

## 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              |
| <b>Thermal Properties*</b>              |                   |                        |                         |
| Thermal resistance $R_{th}$             | K/W               | 0.2*                   | 0.082**                 |
| Thermal conductivity $\lambda$          | W/mK              | 1.8*                   | 6.0**                   |
| <b>Electrical Properties**</b>          |                   |                        |                         |
| 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**                   |
| <b>Mechanical Properties</b>            |                   |                        |                         |
| Hardness                                | Shore A           | 80 - 90                | 70 - 85                 |
| Tensile strength                        | N/mm <sup>2</sup> | 3.0                    | 2.0                     |
| Elongation                              | %                 | 130                    | 150                     |
| <b>Physical Properties</b>              |                   |                        |                         |
| 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 0.15mm \*\* Measured @ thickness 0.2mm



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



### Note

The information provided in this Technical Data Sheet (TDS) including the recommendations for use and application of the product are based on our knowledge and experience of the product as at the date of this TDS. The product can have a variety of different applications as well as differing application and working conditions in your environment that are beyond our control. KERAFOLE is, therefore, not liable for the suitability of our product for the production processes and conditions in respect of which you use them, as well as the intended applications and results. We strongly recommend that you carry out your own prior trials to confirm such suitability of our product. All specifications are subject to change without notice. Any liability in respect of the information in the Technical Data Sheet or any other written or oral recommendation(s) regarding the concerned product is excluded. In case KERAFOLE would be nevertheless held liable, on whatever legal ground, KERAFOLE's liability will in no event exceed the amount of the concerned delivery. All KERAFOLE products are sold pursuant to the KERAFOLE's Terms and Conditions of sale and delivery in effect from time to time, a copy of which will be furnished upon request.

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