

# POLARIS 3000

## Silicone Gap Pad

## PRELIMINARY DATA SHEET

### Benefits

- Good compromise between softness and thermal conductivity
- Outstanding temperature stability
- Elastic behavior
- suitable for military and aerospace applications



| Properties                               | Unit                | 3000        |
|--|---------------------|-------------|
| Colour                                   |                     | turquoise   |
| <b>Thermal Properties*</b>               |                     |             |
| Thermal resistance $R_{th}$              | K/W                 | 0.82        |
| Thermal conductivity $\lambda$           | W/mK                | 3.0         |
| Thermal impedance                        | mm <sup>2</sup> /W  | 328         |
|  | kin <sup>2</sup> /W | 0.5         |
| <b>Electrical Properties**</b>           |                     |             |
| Dielectric breakdown voltage $U_{d, AC}$ | kV                  | 7.0         |
| <b>Mechanical Properties*</b>            |                     |             |
| Hardness                                 | Shore 00            | 50-80       |
| <b>Physical Properties</b>               |                     |             |
| Application temperature                  | °C                  | -90 to +200 |
| Density                                  | g/cm <sup>3</sup>   | 1.87        |
| Flame rating                             | UL-94               | VO***       |
| Possible thickness                       | mm                  | 0.5-4.0***  |

\* Measured @ thickness 1 mm \*\* Measured @ thickness 0.5 mm \*\*\* expected

! At maximum pressure, Gap Pads (SOFTTHERM® Films) should not be compressed beyond 30% of the original thickness. In case the material should be compressed more than 30%, the SOFTTHERM® material may leak out.