DATASHEET





Flexible ceramic thermal-conducting and insulating film Softtherm U 281 is particularly suited for silicone-sensitive applications and as an alternative to silicone-based Softtherm films.

The silicone-free Softtherm film has a high electrical insulation and very good thermal conductivity.

Optional available with adhesive coating!

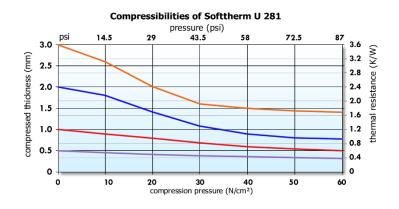
APPLICATIONS

- RD-RAM Memory Module
- Heat Pipe Thermal Solutions
- Automotive Engine
- Control Units
- Plasma Supply Console

DISCLAIMER: Purchaser shall be solely responsible for determining the adequacy of the product for any and all uses which the purchaser shall apply the product, and the application of the product by the purchaser shall not be subject to any implied warranty of fitness for that purpose.

| Properties | symbol | unit | U 281 |
|---------------------------|-----------------|-------------------|------------------------|
| Color | | | gray |
| Thermal Properties | | | |
| Thermal Resistance | R_{th} | K/W | 0.60 |
| Thermal Impedance | R _{ti} | °Cmm²/W Kin²/W | 240 0.37 |
| Thermal Conductivity | λ | W/mK | 2.0 |
| Electrical Properties | | | |
| Breakdown Voltage | $U_{d;ac}$ | kV | 7.0 |
| Dielectric Breakdown | Ed;ac | kV/mm | 14 |
| Volume Resistivity | | Ωm | 5.32 x 10 ⁹ |
| Dielectric Loss Factor | tanδ | 1 | 7.8 x 10 ⁻² |
| Dielectric Constant | ٤r | 1 | 5.57 |
| Mechanical Properties | | | |
| Measured Thickness (±10%) | | mm | 0.5* |
| Hardness | | Shore 00 | 55 – 65 |
| Youngs Modulus** | | N/cm ³ | 244 |
| Physical Properties | | | |
| Density | | g/cm ³ | 2.6 |
| Application Temperature | | °C | -40 to +130 |
| TML | | Ma% | < 0.9 |
| Flame class | | UL | 94V-0 |
| Available Thicknesses | | mm | 0.5 – 3.0 |

**** Youngs modulus:** sample size 30mmx30mmx2.5mm; variable contact pressure; compression 50% of measured thickness





MH&W International Corp.

Joint Control575 Corporate DriveTHERMAL PRODUCTS DIVISIONMahwah, NJ 07430-2330

Tel: (201) 891-8800 Fax: (201) 891-0625

THERMAL PRODUCTS DIVISION

Email: thermal@mhw-intl.com Internet: http://www.mhw-thermal.com 09/13

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