## Hightech aus der Oberpfalz

## Keratherm<sup>®</sup> - Softtherm<sup>®</sup>

The Softtherm® 86/525 has a very good thermal behaviour. The film is characterized by very good compressibility, low thermal resistance and best heat dissipation.

The film is designed for optimal thermal connections in the fields of computer technology and high-performance automotive applications. With its outstanding thermal conductivity and very good compressibility the film is very well suited for these types of applications. The material's good formability reduces mechanical stress on the power components.

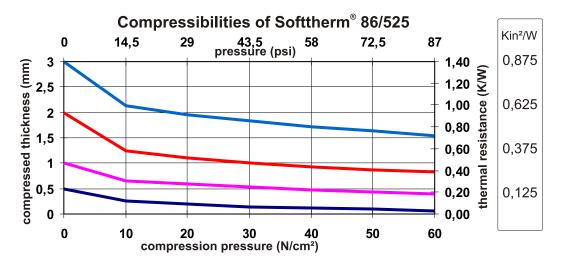
## **Applications:**

- RD-RAM memory modules
- Heat pipe thermal solutions
- Automotive engines
- Control units
- Plasma supply console



\*Youngs modulus sample size 30mmx30mmx2.5mm; variable contact pressure; compression 50% of the measured thickness \*\*\*Kerafol test according to UL

Properties	Unit	86/525
Colour		violett
Thermal properties		
Thermal resistance R <sub>th</sub>	K/W	0.22
Thermal impedance R <sub>ti</sub>	°Cmm²/W Kin²/W	89 0.14
Thermal conductivity λ	W/mK	5.5
Electrical properties		
Breakdown voltage U <sub>d; ac</sub>	kV	1.5
Dielectric breakdown E <sub>d; ac</sub>	kV/mm	2.5
Volume resistivity	Ωm	16 x 10 <sup>12</sup>
Dielectric loss factor $tan \delta$	1	1.0 x 10 <sup>-3</sup>
Dielectric constant ε <sub>r</sub>	1	2.7
Mechanical properties		
Measured thickness (+/-10%)	mm	0.5
Hardness	Shore 00	50 - 60
Youngs modulus*	N/cm²	98.5
Physical properties		
Density	g/cm³	1.18
Application temperature	°C	-40 to +180
TML	Ma%	< 0.35
Flame class	UL	94V-0
Possible thickness**	mm	0.5 - 3.0



The data presented in this leaflet are in accordance with the present state of our knowledge. All statements, technical information and recommendations herein are based on tests we believe to be reliable. The customer is thereby not absolved from carefully checking all supplies immediately on receipt. The recommendations made in this catalogue should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other companies' raw materials and liability whatsoever in connection there with. We reserve the right to alter product constants within the scope of technical process or new developments. The recommendations do not absolve the customer from the obligation of investigating the possibility of infringement of third parties right and, if necessary, clarifying the position. Sellers' and manufacturer' only obligation shall be to replace such quantity of the product proved to be defective. Neither seller nor manufacturer shall be liable either intor or contract for any loss or damage, direct or incidental, or consequential, including loss of profits or revenue arising out of the use or the inability to use a product. No statement, purchase order or recommendations by seller or purchaser not contained herein shall have any force or effect unless in an agreement signed by the officers of the seller and manufacturer. June 2011