



## PS-2642

### Product Description:

P-THERM® PS-2642 is a silicone based thermally conductive gap filler with an embedded fiberglass support and 125 micron removable polyester carrier.

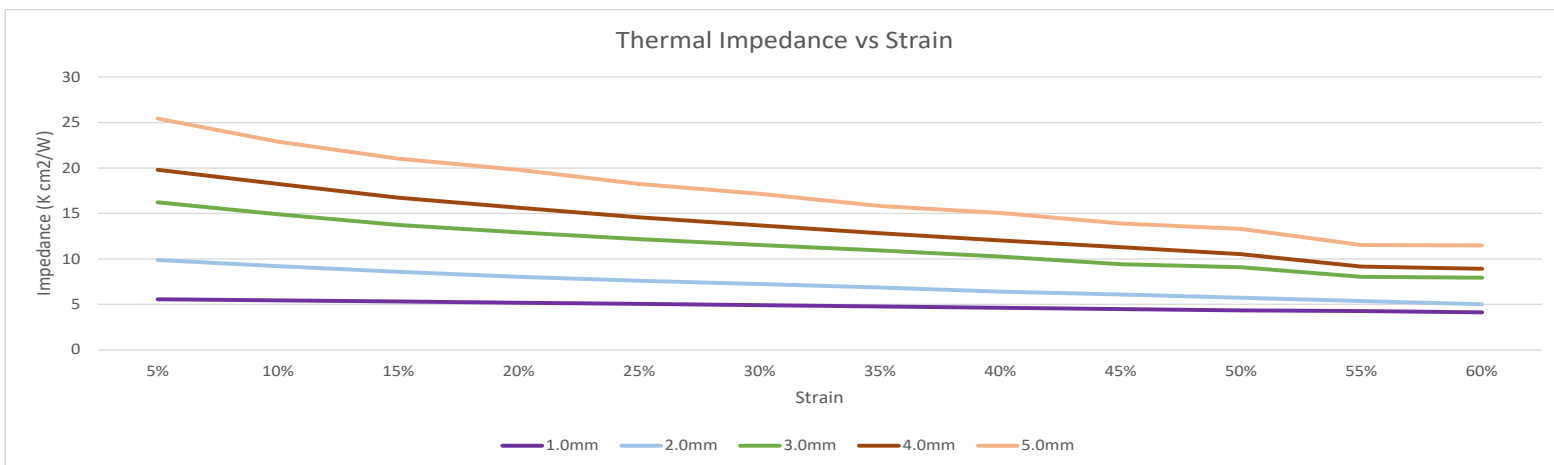
### Construction / Properties:

| General  | Property                              | Value              | Test Method   |
|--|---------------------------------------|--------------------|---------------|
|  | Color                                 | Blue               | Visual        |
|  | Thickness Range                       | 0.5 mm - 5.0 mm    | ASTM D374     |
|  | Reinforcement Carrier Type            | Fiberglass         | --            |
|  | Density (g/cc)                        | 2.43               | ASTM D792     |
|  | Heat Capacity (J/g K) @ 50 C          | 1.08               | ASTM E1269    |
|  | Hardness (Shore 00)                   | 47                 | ASTM D2240    |
|  | Total Mass Loss (@ 125 C/24 hrs)      | 0.08%              | ASTM E595**   |
|  | Flammability Rating                   | V-0                | UL 94         |
|  | Continuous Use Conditions             | -60 - 200 C        | QSP-754       |
|  | Electrical                            | Property           | Value         |
| Dielectric Breakdown Strength (kV/mm)          |                                       | 20.00              | ASTM D149     |
| Volume Resistivity (ohm-cm)                    |                                       | 1.0E+11            | ASTM D257     |
| Thermal  | Property                              | Value              | Test Method   |
|  | Thermal Conductivity                  | 2 W/m K            | ASTM D5470*   |
|  | <b>Thermal Performance vs. Strain</b> |                    |               |
|  | Deflection (% Strain)                 | 10      20      30 | ASTM D5470*** |
| Thermal Impedance (K cm <sup>2</sup> /W) @ 1mm | 5.45      5.18      4.91              |                    |               |

\* Thermal conductivity tested at 20% strain.

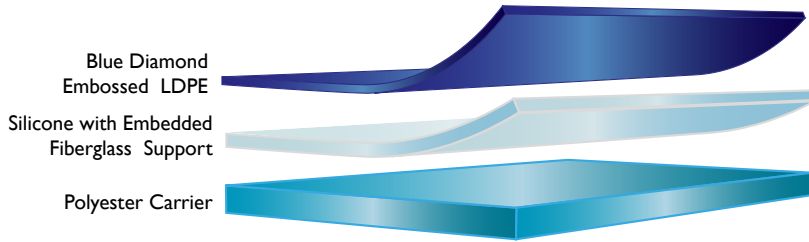
\*\* Tested at atmospheric pressure

\*\*\* Values tested include interfacial thermal resistance: Application performance is directly related to surface roughness, flatness and pressure applied.



## Features:

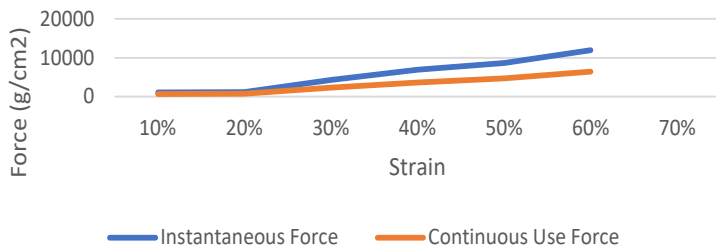
- Good Thermal Conductivity
- Excellent Compression Characteristics
- Excellent Wet-Out
- Superb Flexibility
- Excellent Converting Properties
- RoHS and HF Compliant



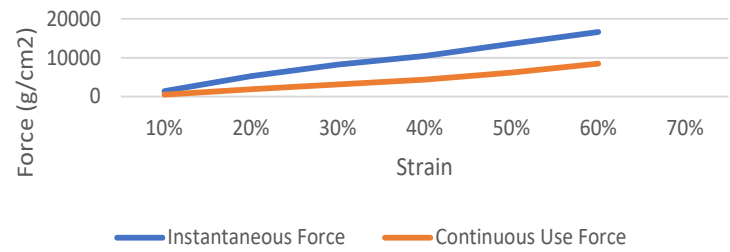
## Applications:

- LED Lighting
- Battery Components
- Infotainment Modules
- Smartphones
- Tablets
- Computers
- Digital Personal Assistants
- Automotive Lighting

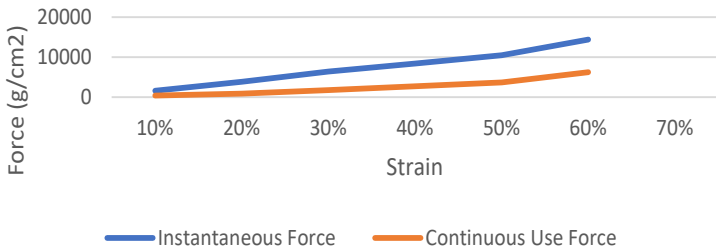
### 0.5mm Compression Force Deflection



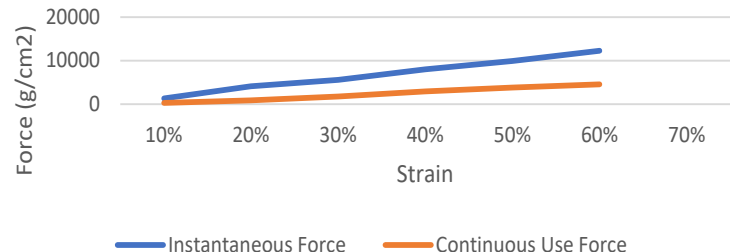
### 1.0mm Compression Force Deflection



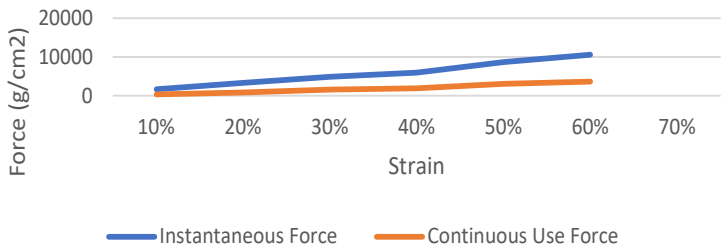
### 1.5mm Compression Force Deflection



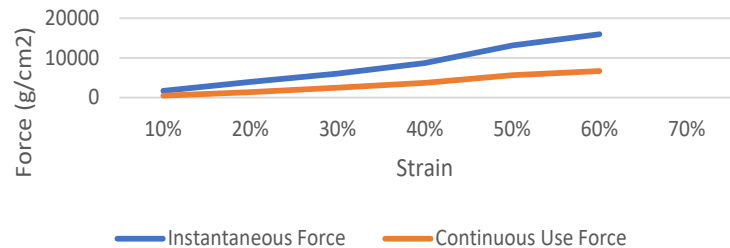
### 2.0mm Compression Force Deflection



### 2.5mm Compression Force Deflection



### 3.0mm Compression Force Deflection



Specific tests should be performed by the end user to determine the product stability for the particular application.

### For Additional Information:

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