



## 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.

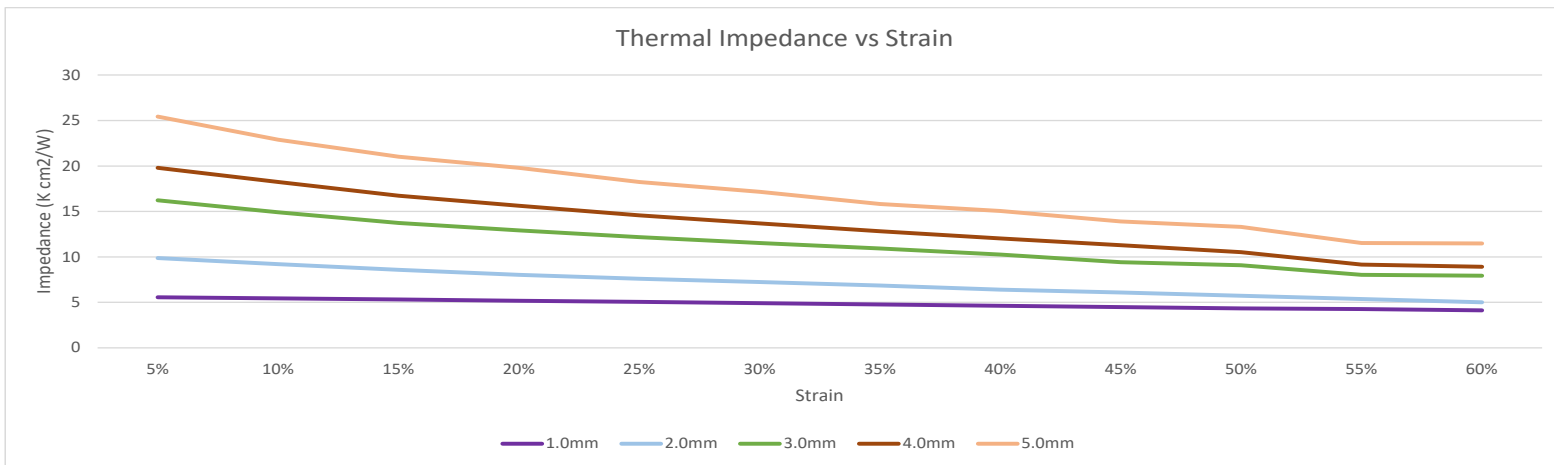
### Construction / Properties:

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.

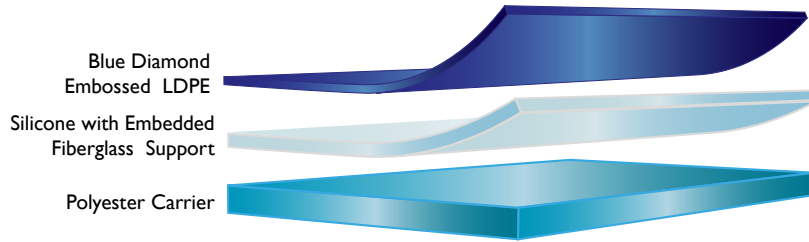
\*\* Tested at atmospheric pressure

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



## Features:

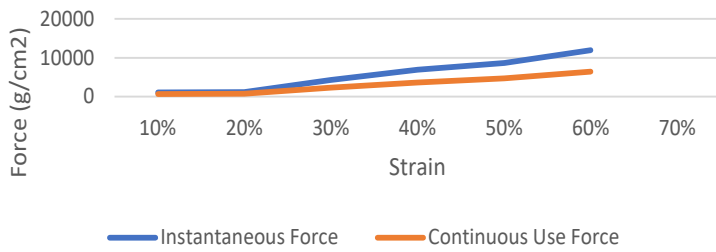
- Good Thermal Conductivity
- Excellent Compression Characteristics
- Excellent Wet-Out
- Superb Flexibility
- Excellent Converting Properties
- RoHS and HF Compliant



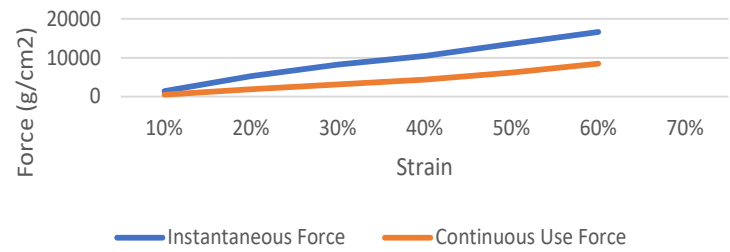
## Applications:

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

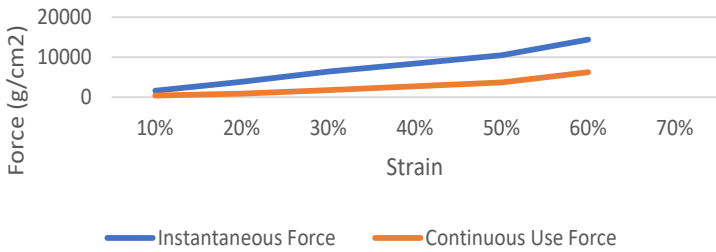
### 0.5mm Compression Force Deflection



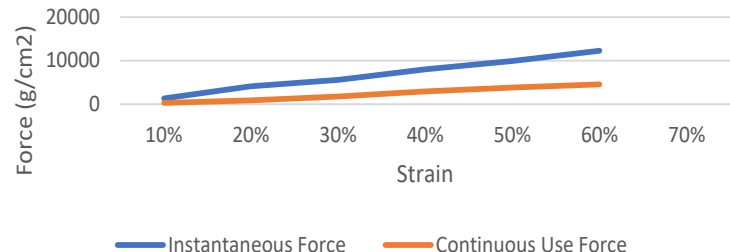
### 1.0mm Compression Force Deflection



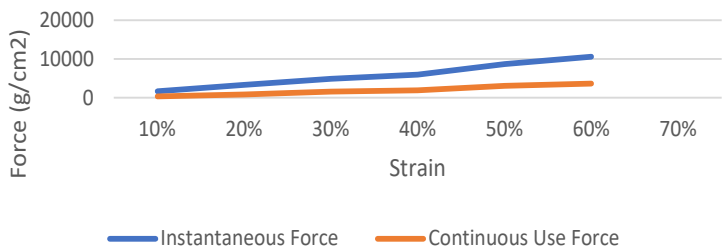
### 1.5mm Compression Force Deflection



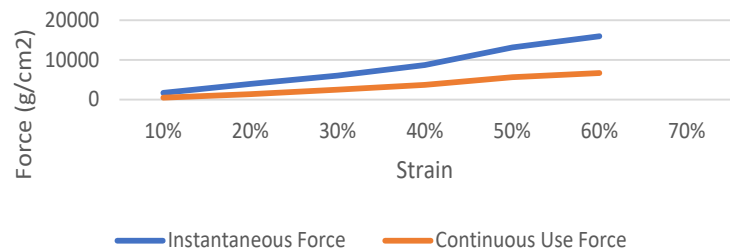
### 2.0mm Compression Force Deflection



### 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:

E-mail: [sales@polymerscience.com](mailto:sales@polymerscience.com)  
Toll Free: +1 888.533.7004  
Web: [www.polymerscience.com](http://www.polymerscience.com)  
Revision: 040621