



PS-2643

Product Description:

P-THERM® PS-2643 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	Green	Visual
	Thickness Range	0.5 mm - 5.0 mm	ASTM D374
	Reinforcement Carrier Type	Fiberglass	--
	Density (g/cc)	2.73	ASTM D792
	Heat Capacity (J/g K) @ 50 C	0.66	ASTM E1269
	Hardness (Shore 00)	41	ASTM D2240
	Total Mass Loss (@125 C/24 hrs)	0.09%	ASTM E595**
	Flammability Rating	V-0	UL 94
	Continuous Use Conditions	-60 - 200 C	QSP-754

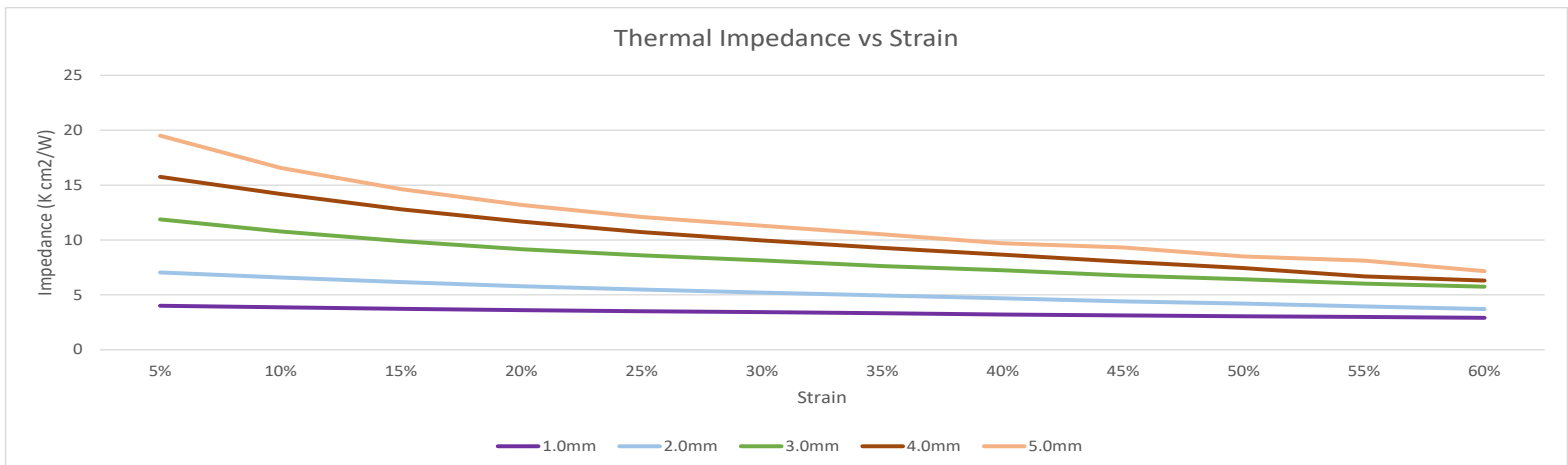
Electrical	Property	Value	Test Method
	Dielectric Breakdown Strength (kV/mm)	13.00	ASTM D149
	Volume Resistivity (ohm-cm)	1.0E+11	ASTM D257

Thermal	Property	Value	Test Method	
	Thermal Conductivity	3 W/m K	ASTM D5470*	
	Thermal Performance vs. Strain			
	Deflection (% Strain)	10	20	30
Thermal Impedance (K cm ² /W) @ 1mm	3.87	3.62	3.43	

* Thermal conductivity tested at 20% strain.

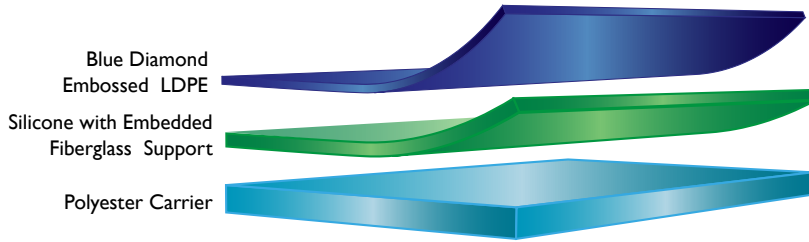
** Tested at atmospheric pressure

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



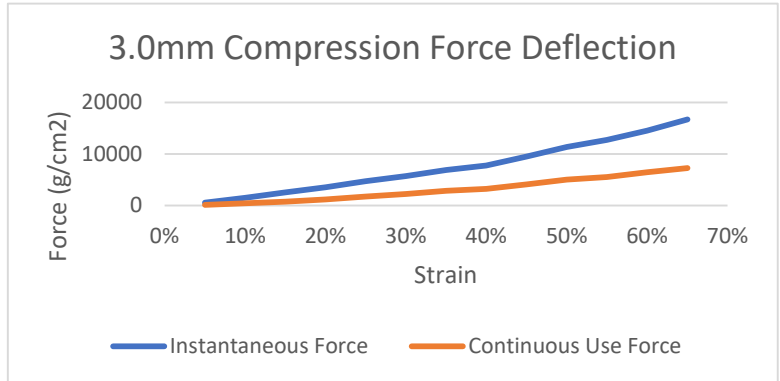
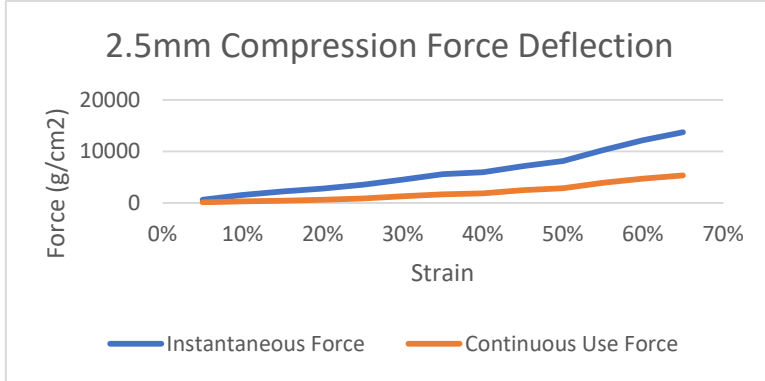
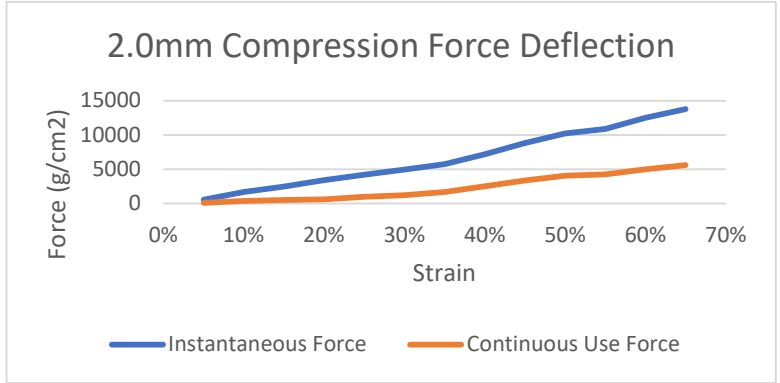
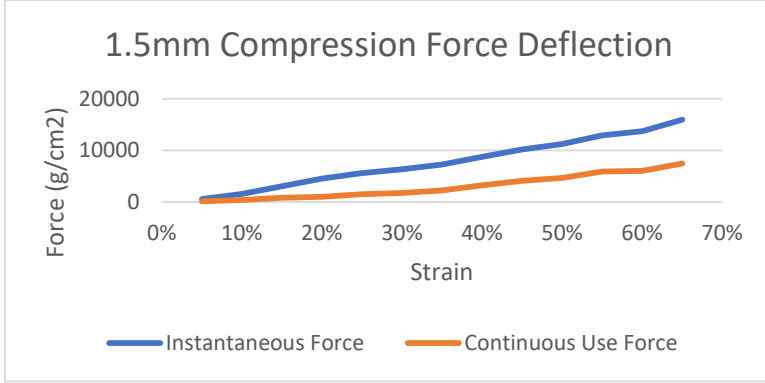
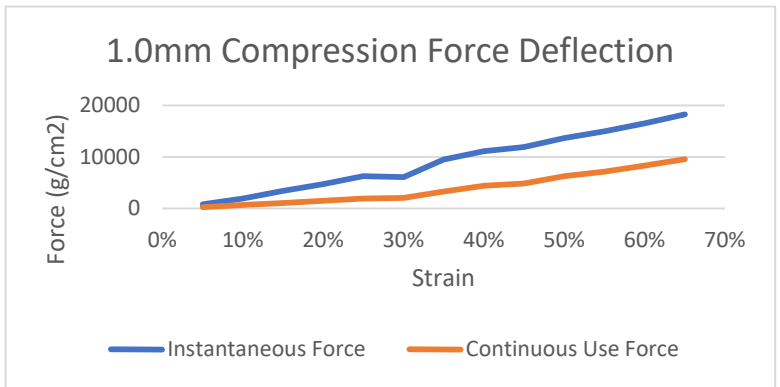
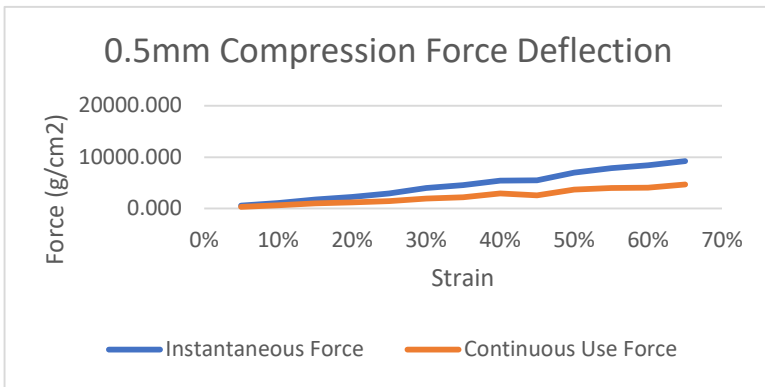
Features:

- Excellent Thermal Conductivity
- Excellent Compression Characteristics
- Good 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



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
 Toll Free: +1 888.533.7004
 Web: www.polymerscience.com
 Revision: 040621