Technical Data Sheet

P-THERM®

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PS-1541

Product Description:

P-THERM® PS-1541 is an ultra-soft silicone based thermally conductive gap filler with an embedded fiberglass support and 125 micron removable polyester carrier.

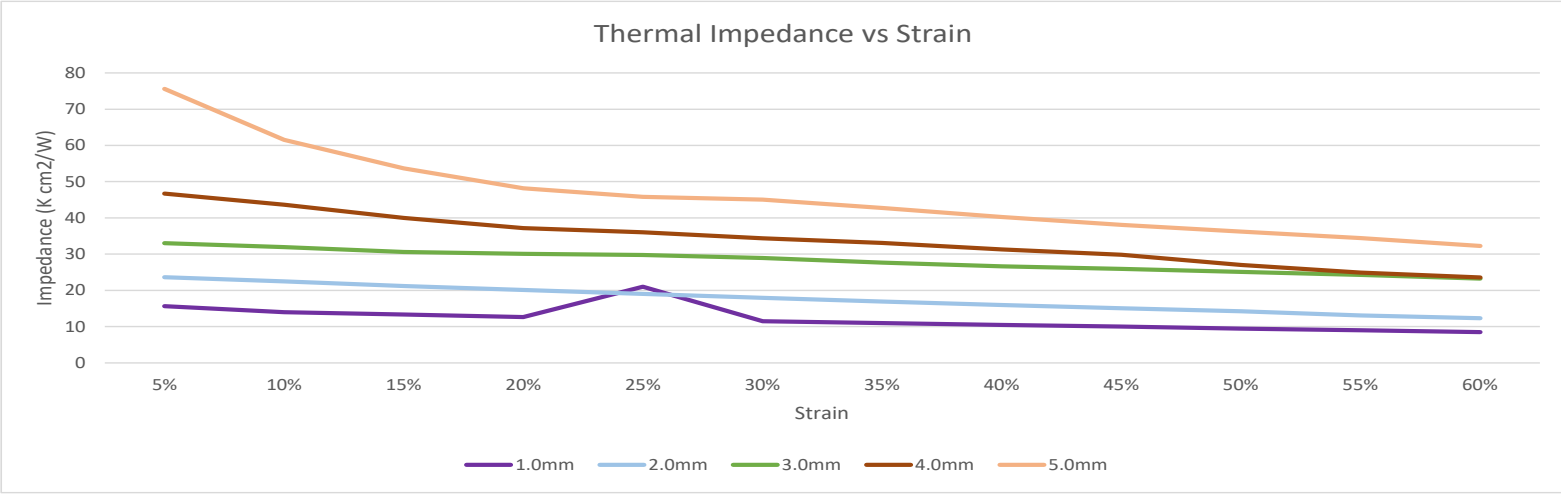
Construction / Properties:

	Property	Value	Test Method
General	Color	Gray	Visual
	Thickness Range	0.5 mm - 5.0 mm	ASTM D374
	Reinforcement Carrier Type	Fiberglass	--
	Density (g/cc)	1.63	ASTM D792
	Heat Capacity (J/g K) @ 50 C	1.27	ASTM E1269
	Hardness (Shore 00)	9	ASTM D2240
	Total Mass Loss (@ 125 C/24 hrs)	0.28%	ASTM E595**
	Flammability Rating	V-0	UL 94
	Continuous Use Conditions	-60 - 200 C	QSP-754

	Property	Value	Test Method
Electrical	Dielectric Breakdown Strength (kV/mm)	9.36	ASTM D149
	Volume Resistivity (ohm-cm)	1.0E+18	ASTM D257

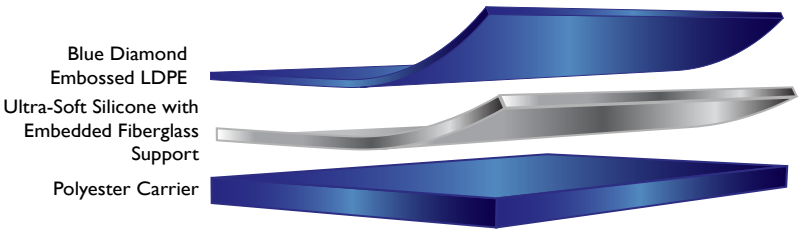
	Property	Value			Test Method
Thermal	Thermal Conductivity	1 W/m K			ASTM D5470*
	Thermal Performance vs. Strain				
	Deflection (% Strain)	10	20	30	ASTM D5470***
	Thermal Impedance (K cm²/W) @ 1mm	13.98	12.65	11.46	

* 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.



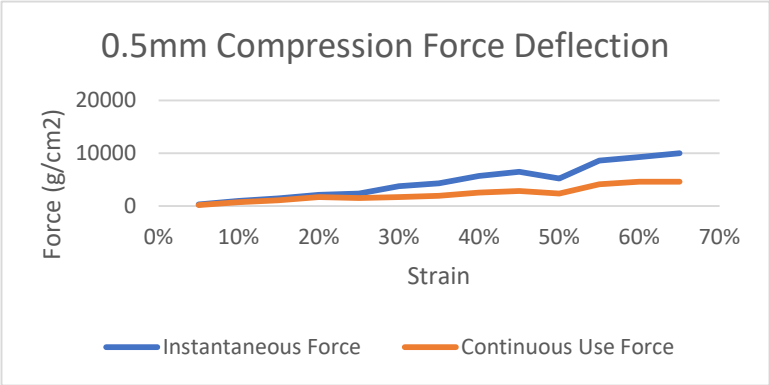
Features:

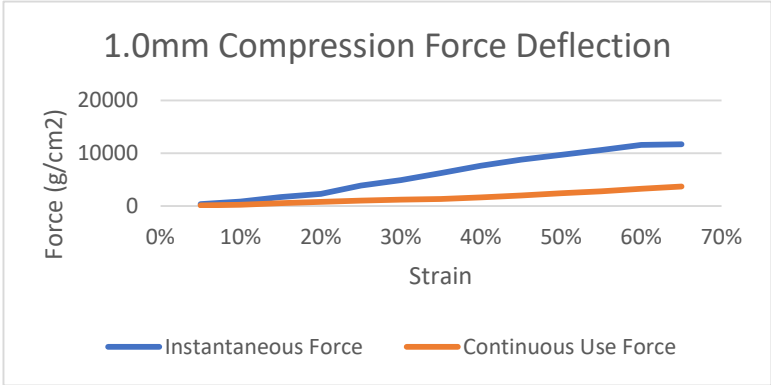
- Good Thermal Conductivity
- Excellent Compression Characteristics
- Excellent Wet-Out
- Superb Flexibility
- Excellent Converting Properties
- RoHS and HF Compliant

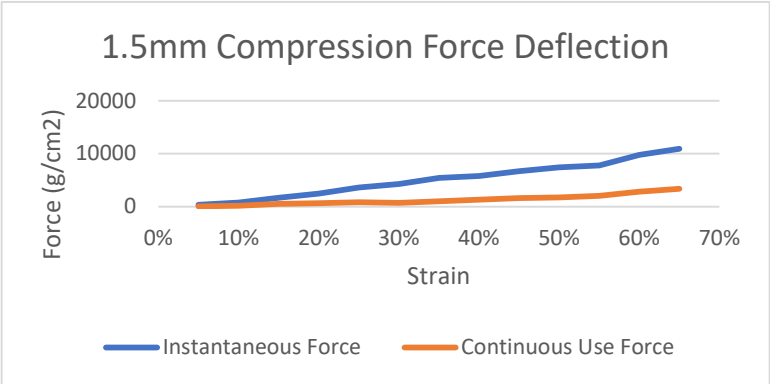


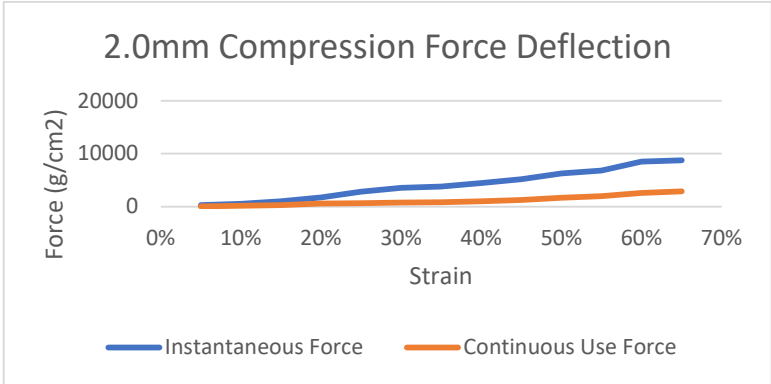
Applications:

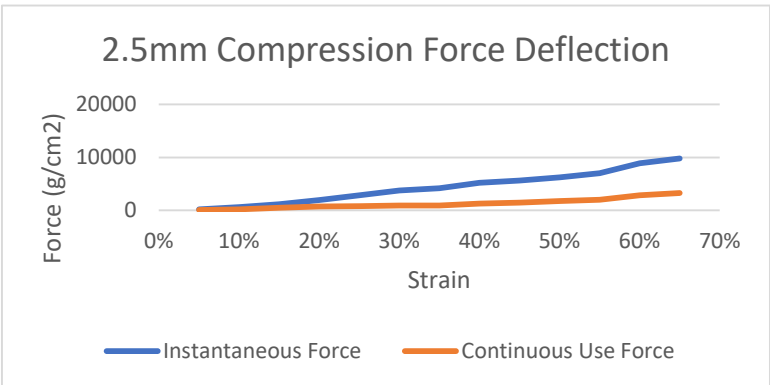
- LED Lighting
- Battery Components
- Infotainment Modules
- Smartphones
- Tablets
- Computers
- Digital Personal Assistants
- Automotive Lighting

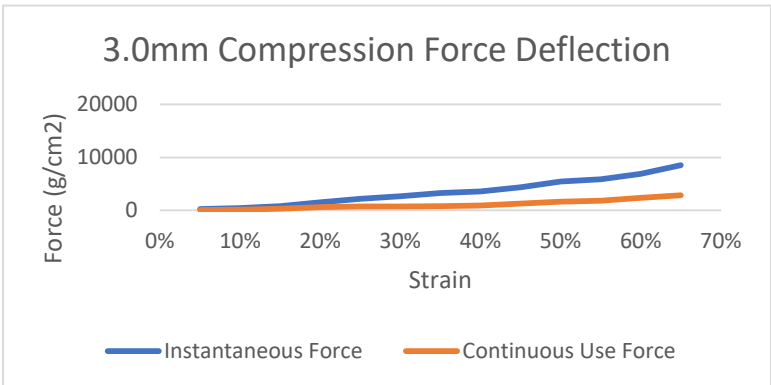












Specific tests should be performed by the end user to determine the product stability for the particular application.

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