



PS-1591N-0.25

Product Description:

P-THERM® PS-1591N-0.25 is an ultra-soft silicone based thermally conductive gap filler with an embedded fiberglass support. PS-1591N-0.25 boasts enhanced flexibility with its lower profile fiberglass dielectric layer over similar products used for thermal management in consumer electronic and automotive applications.

Construction / Properties:

	Property	Value	Test Method
General	Color	Gray	Visual
	Thickness Range	0.25 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)	20	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
	Electrical	Property	Value
Dielectric Breakdown Strength (kV/mm)		9.36	ASTM D149
Volume Resistivity (ohm-cm)		1.0E+18	ASTM D257
Thermal	Property	Value	Test Method
	Thermal Conductivity	≥0.75 W/m K	ASTM D5470*
	Thermal Performance vs. Strain		
	Deflection (% Strain)	20	ASTM D5470***
	Thermal Impedance (K cm ² /W) @ 0.25mm	1.15	

* Thermal conductivity tested at 20% strain.

** Tested at atmospheric pressure

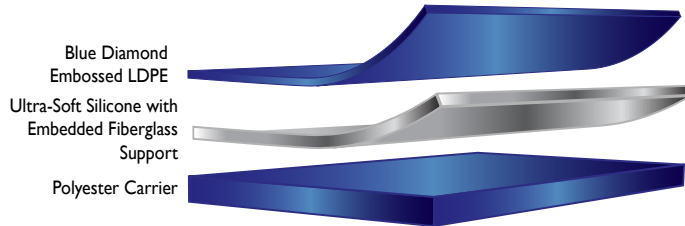
*** Values tested include interfacial thermal resistance: Application performance is directly related to surface roughness, flatness and pressure applied.

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:

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Revision: 060523