Technical Data Sheet

P-THERM®

PS-1523

Product Description:

P-THERM® PS-1523 is a double coated, thermally conductive polyurethane coating on a polyimide carrier designed to offer good dielectric and thermal conductivity without the worry of flow from wax-based products or mess associated with thermal grease. The polyurethane coating is formulated to feel dry to the touch while offering natural tack to mitigate movement during assembly. PS-1523 is supplied with a polyimide carrier.

Construction / Properties:

	Property	Value	Test Method
General	Color	Tan	Visual
	Thickness Range	0.15 mm	ASTM D374
	Carrier Type	Polyimide	--
	Density (g/cc)	1.36	ASTM D792
	Heat Capacity (J/g K) @ 50 C	1.14	ASTM E1269
	Hardness (Shore 00)	--	ASTM D2240
	Total Mass Loss (@125 C/24 hrs)	0.42%	ASTM E595**
	Flammability Rating	V-0	UL 94
	Continuous Use Conditions	0 - 165 C	QSP-754

	Property	Value	Test Method
Electrical	Dielectric Breakdown Strength (kV/mm)	69.00	ASTM D149
	Volume Resistivity (ohm-cm)	1.0E+16	ASTM D257

	Property	Value			Test Method
Thermal	Thermal Conductivity	0.75 W/m K			ASTM D5470*
	Thermal Performance vs. Strain				
	Deflection (% Strain)	10	20	30	ASTM D5470***
	Thermal Impedance (K cm^2/W) @ 0.05mm	145.14	138.5	127.91	

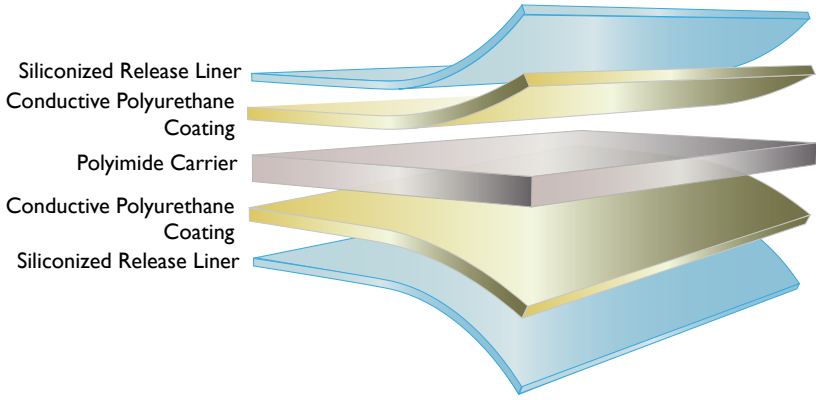
* Thermal conductivity tested at 20% strain.

** Tested at atmospheric pressure

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

Features:

- Non-Silicone
- High Temperature Resistance
- Low Stress on Components
- Shock Absorbing
- Low VOC
- RoHS and HF Compliant



Applications:

- Televisions
- Automotive Electronics
- Consumer Electronics
- Power Semiconductor Devices

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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