TennVac
EMI / Thermal
http://www.tennvac.com

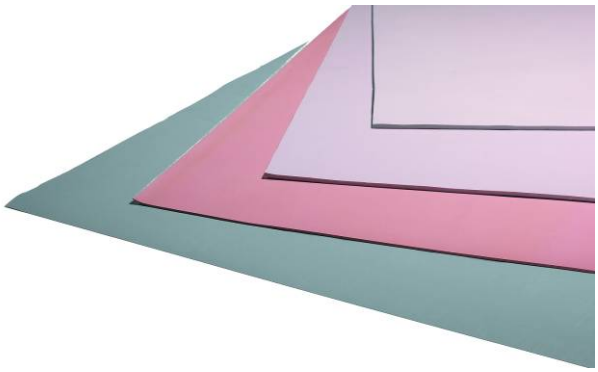
Max-Therm Thermal Interface material –Insulation Pad

IP 1000 series

General Usage:

TennVac's Thermal pad IP1000 is a fiberglass-reinforced material, filled with functional ceramic particles silicone rubber, which is a high performance interface pad and providing 3.8W thermal conductivity. It is used when the lowest thermal resistance and highest Dielectric strength are required. Thermal pad IP1000 series is a fiberglass-reinforced material.

Benefit:



- Continuous roll package rubber
- Excellent Thermal conductivity
- Ultra soft, highly compressible
- Good wetting
- Self tacky or additional PSA if required

Typical Applications:

- Power Conversion Equipment
- Power Semiconductors:
- MOSFETs& IGBTs packages
- Audio and Video Components
- Automotive Control Units
- Motor Controllers
- General High Pressure Interfaces

Typical Properties:

IP series	Test method	IP1025	IP1035	IP1050
Construction & Composition		Silicone	Silicone	Silicone
Color		Magenta	Magenta	Magenta
Thickness (mm)		0.25mm	0.35mm	0.50mm
Thickness Tolerance (mm)		±10%	±10%	±10%
Density (g/cc)		2.85	2.85	2.85
Hardness (Shore OO)	ASTM D 2240	85	85	85
UL Rating		94HB	94HB	94HB
Continuous Use Temp (℃)	TGA+DMA	-40 ~ 200	-40 ~ 200	-40 ~ 200
Thermal Conductivity (W/mk)	ASTM 5470/E 1530	3.8	3.8	3.8
Thermal Impedance @10psi (℃-in²/W)		0.18	0.25	0.35
@69KPa(℃-cm²/W)		1.17	1.160	2.24
Breakdown voltage (Volts)		>5000	>5000	>5000
Volume Resistivity (ohm-cm)	ASTM D 257	36×10^{14}	36×10^{14}	36×10^{14}
Dielectric Constant @1MHz	ASTM D 150	NA	NA	NA

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