

Dow Corning® TP-2100 Thermal Gap Pad

Foam-reinforced, compressible silicone gap filler

Material Properties:

Key Features

- Thermal conductivity: 0.73 W/m•K
- Both sides compressible
- Foam reinforcement
- Alumina-filled system

Description

Dow Corning® TP-2100 Thermal Gap Pad is a cost-competitive, highly compressible silicone gel gap filler with moderate bulk conductivity. This gel uses foam reinforcement to maintain compressibility, while providing easy handling to simplify application and improve long-term reliability. It is ideal for use in low-power applications requiring heat transfer across any large air gap.

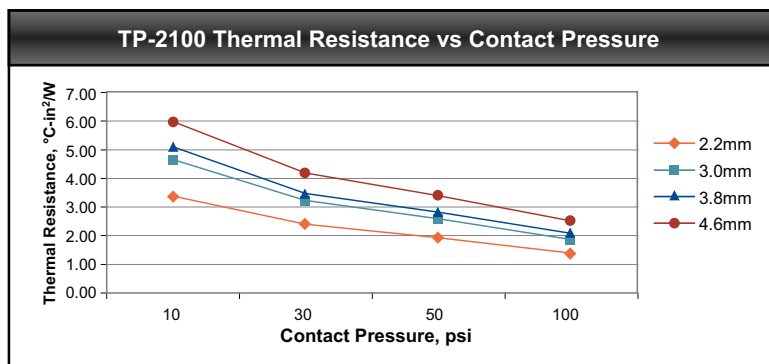
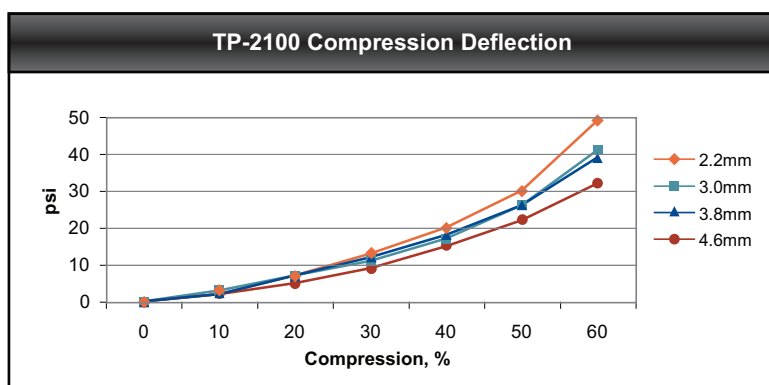
Typical Applications

- NB and DT Memory
- DIMM Modules
- Handheld Devices
- Telecommunications (routers, switches, base stations)
- ECU
- Flat Panel Displays (where heat transfer is required and/or noise/drop vibration dampening is required)

Property	Units	TP-2100			
		2.20	3.00	3.80	4.60
Thickness	mm	2.20	3.00	3.80	4.60
Color	-	light gray	light gray	light gray	light gray
Thermal Resistance (°C-in²/W) ASTM D5470	10 psi	3.36	4.63	5.08	5.97
	30 psi	2.38	3.21	3.45	4.17
	50 psi	1.91	2.56	2.80	3.37
	100 psi	1.37	1.84	2.05	2.49
Thermal Conductivity	W/m•K	0.73	0.73	0.73	0.73
Flammability (UL recognized unless otherwise noted)	-	94 HB	94 HB	94 HB	94 HB
Hardness, Shore OO (Asker C)	type OO	34 (5)	34 (5)	34 (5)	34 (5)
Compression Deflection (%) at given pressure ASTM D575 (Measured at specified thickness)	10 psi	25	28	26	32
	30 psi	50	53	53	58
	50 psi	-	-	-	-
	100 psi	-	-	-	-
Specific Gravity	g/cm³	1.84	1.84	1.84	1.84
Tear Strength	lb/in	-	-	-	-
Tensile Strength	lb/in²	65	64	74	72
Elongation	%	194	197	201	237
Volume Resistivity	ohm•cm	7.18E+12	7.18E+12	7.18E+12	7.18E+12
Dielectric Strength	volts/mil	475	525	475	450
	kv/mm	19	21	19	17
Dielectric Constant	100Hz	4.64	4.64	4.64	4.64
	100kHz	4.37	4.37	4.37	4.37
	1MHz	4.34	4.34	4.34	4.34

Important Features and Benefits

Features	Benefits
Highly compressible	<ul style="list-style-type: none"> • Good thermal performance with reduced interfacial thermal resistance • Noise/vibration dampening • Shock absorbing
Homogeneous construction	<ul style="list-style-type: none"> • Both sides compressible • No internal interference or delamination
PU reinforced	<ul style="list-style-type: none"> • Good compressibility
Low compression set	<ul style="list-style-type: none"> • Long-term reliability



Need Additional Help?

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