



***Ready for 5G**

PRODUCT DESCRIPTION

Tpli™ 200 is a premium gap filler. A unique blend of boron nitride and silicone produce the highest performing interface pad.

Tpli 200's exceptional combination of high thermal conductivity and compliancy generate unmatched thermal resistances in a gap filling interface material.

Tpli 200 absorbs shock and relieves stresses, thus minimizing potential damage to components. Tpli 200 is electrically insulating, stable from -45°C to 200°C, and meets UL 94 HB rating.

FEATURES AND BENEFITS

- Soft and compliant
- High Thermal performance
- Environmentally friendly solution that meets regulatory requirements including RoHS and REACH

SPECIFICATIONS

TYPICAL PROPERTIES	TYPICAL VALUE	TEST METHOD
Construction & Composition	Boron nitride filled silicone sheet	N/A
Color	Varies by thickness	Visual
Thickness Range	0.25mm (0.010") - 5.08mm (0.20")	N/A
Thickness Tolerance	+/- 10%	N/A
Thermal Conductivity (W/mK)	6.0	ASTM D5470
Density (g/cc)	1.4	Helium Pyncometer
Hardness (Shore 00)	70	ASTM D2240
Outgassing TML (weight %)	0.51	ASTM E595
Outgassing CVCN (weight %)	0.17	ASTM E595
Temperature Range	-45°C to 200°C	N/A
Rth@ 40 mils, 10 psi, 50°C	0.25°C-in ² /W	ASTM D5470 (modified)
* Dielectric Constant @ 10GHz	3.2 *	ASTM D150
UL Flammability Rating	HB	UL 94
Volume Resistivity	5x10 ¹³ ohm-cm	ASTM D257



Tpli 200 Series Thermal Gap Filler

AVAILABILITY

STANDARD THICKNESSES

- 0.25mm (0.010") to 5.0mm (0.200") thick material available in 0.25mm (0.010") increments
- Available in standard sheet sizes of 18" x 18" and 9" x 9" or custom die cut parts

REINFORCEMENT

- Fiberglass is required in thicknesses of 0.010" (0.25mm) and 0.015" (0.38mm)
- Reinforcement is optional in thicknesses 0.020" (0.5mm) and 0.025" (0.63mm). Indicate fiberglass by "FG" suffix
- Thicknesses above 0.025" (0.63mm) are not reinforced

OPTIONS

- A0 - no adhesive
- A1 – adhesive on one side

POST CURE

- Post Curing option available. Indicate fiberglass by "PC" suffix

PART NUMBER SYSTEM

Tflex™ indicates Laird elastomeric thermal gap filler product line. Tpli 2xx indicates Tpli 200 product line with thickness in mils (0.001")

EXAMPLES:

- Tpli 240,A0 = 0.040 inch thick Tpli™ 200 material with no adhesive
- Tpli 280,A1 = 0.080 inch thick Tpli™ 200 material with one side adhesive
- Tpli 220FG,A1 = 0.020 inch thick Tpli™ 200 material with fiberglass reinforcement and one side adhesive
- Tpli 260,PC = 0.060 inch thick Tpli™ 200 material post cured

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Laird Performance Materials:

[A10092-63](#) [A10092-45](#) [A10092-02](#) [A10092-01](#) [A10102-02](#) [A10102-01](#) [A10103-07](#) [A10103-01](#) [A10103-02](#)
[A10104-02](#) [A10104-01](#) [A10105-02](#) [A10105-01](#) [A10106-01](#) [A10106-02](#) [A10263-13](#) [A10263-08](#) [A10263-01](#) [A10263-02](#) [A10107-01](#) [A10107-02](#) [A10108-01](#) [A10108-02](#) [A10109-01](#) [A10110-01](#) [A10110-02](#) [A10111-02](#) [A10111-01](#)
[A10093-41](#) [A10080-39](#) [A10080-34](#) [A10093-37](#) [A10080-02](#) [A10080-01](#) [A10093-01](#) [A10112-02](#) [A10112-01](#) [A10095-11](#) [A10095-13](#) [A10095-02](#) [A10095-01](#) [A10096-67](#) [A10096-79](#) [A10222-11](#) [A10096-35](#) [A10222-02](#) [A10096-01](#)
[A10096-02](#) [A10097-18](#) [A10097-01](#) [A10098-12](#) [A10098-32](#) [A10098-01](#) [A10098-02](#) [A10099-18](#) [A10099-16](#) [A10099-01](#) [A10099-02](#) [A10100-14](#) [A10100-23](#) [A10100-01](#) [A10100-02](#) [A10101-09](#) [A10101-01](#) [A10101-02](#) [A10093-02](#)
[A10092-122](#) [A10265-02](#) [A10264-14](#) [A10101-04](#) [A10109-02](#) [A10264-01](#) [A10097-02](#) [A10264-06](#) [A10097-20](#) [A10080-109](#) [A10092-155](#) [A10264-09](#) [A10945-04](#) [A10107-04](#) [a10107-07](#) [a10102-14](#) [A10112-04](#) [A10105-03](#)
[A10106-04](#) [A10104-07](#) [A10105-04](#) [A10110-08](#) [a10104-11](#) [A10108-04](#) [A10109-04](#) [A10109-03](#) [a10112-20](#) [A10111-03](#) [A10111-04](#) [A10103-04](#) [A10102-19](#) [A10108-03](#) [A10110-04](#) [A10263-10](#)