



Laird™ Tflex™ HD90000

Laird’s Tflex™ HD90000 is the latest product in our High Deflection series. Tflex™ HD90000 combines 7.5 W/mK thermal conductivity with superior pressure versus deflection characteristics. The combination will allow minimal stress on components while also yielding low thermal resistance. As a result, less mechanical and thermal stresses will be experienced within your device. Tflex™ HD90000 is available in thickness from 0.020” (500 µm) to 0.200” (5000 µm). Laird can provide material to meet your production needs in any region through our local production facilities. Please contact your local Laird sales or field engineering contact for samples or questions.

TECHNICAL DATA SHEET | (EFFECTIVE 24FEB25)

Laird™ Tflex™ HD90000			
PHYSICAL PROPERTY	TEST METHOD	UNIT	VALUE
Construction & Composition		-	Ceramic filled silicone sheet
Color		-	Grey
Thickness Range		in µm	0.02 - 0.2 500 - 5000
Thickness Tolerance		%	10
Thermal Conductivity	Hot Disk	w/mk	7.5
Density	Helium Pyncometer	g/cc	3.5
Outgassing TML	ASTM E595	%	0.17
Outgassing CVCM	ASTM E595	%	0.01
Temperature Range	Laird Test Method	°C	-65 to 125
Hardness Shore 00 (3 sec)	ASTM 2240	-	500 and 750 µm: 45 1000 µm and up: 32
Rth @ 40 mils, 10 psi	ASTM D5470	°C-in²/w	0.198
Dielectric Constant @ 1 MHz	ASTM D150	-	8.14
UL Flammability Rating	UL 94	-	V-0
Volume Resistivity	ASTM D257	Ω-cm	8.73 × 10 ¹³