

Thermal Management Materials (6002 Series)



This material exhibits excellent softness, high compressibility, and natural adhesiveness. It is excellent for applications where high electrical insulation is needed.

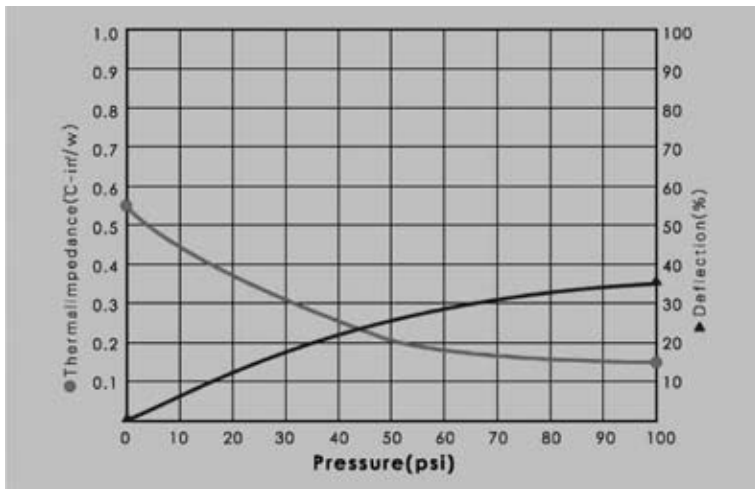
This product has high thermal conductivity to effectively conduct heat away from sensitive components to a heat sink. The 6002 is an economical thermal conductive interface material.

Being electrically insulating, this thermal conductive material can be applied to electrical devices exhibiting high voltages.

PROPERTY Material 6002	RANGE	UNIT	TEST METHOD
Color	Light gray	—————	Visual
Thickness	0.13 - 15	mm	ASTM D374
Specific Gravity	2.35 +/-0.2	g/cm ³	ASTM D792
Hardness	15 +/-3	Shore A	ASTM D2240
Elongation	300 +/-0.2	%	ASTM D412
Tensile Strength	12 +/-5	Kgf/cm ²	ASTM D412
Weight Loss	<1	%	@204°C/24 hr.
Dielectric Breakdown (V)	>7	KV	ASTM D149
Surface Resistance	>10 ¹⁷	Ohm	ASTM D257
Temperature Continuous	-50 to +220	°C	-
Flame Raring	94V-0	UL	UL
Thermal Conductivity	1.6	W/m-k	ASTM D5470



Test Sample Thickness: 2.0mm



Thermal Resistance vs. Pressure (Gray)

The 6002 material provides low thermal impedance; with increasing pressure, thermal impedance becomes lower.

Deflection vs. Pressure (Black)

The 6002 material exhibits high deflection (softness); as pressure increases the deflection percentage increases. This material provides good compliance to mating surfaces.

Sample of the 6002 material

