

## Thermal Management Materials (6000 Series) 6003 Material

### Product Summary

MAJR 6000 thermal Management materials consist of sheet, adhesive, and grease compounds; these thermal materials are used in a wide variety of markets such as chip sets for IC controller packages, IT for industrial and personal computers, DRAM Modules, telecom devices, automotive control units, and a variety of other products used in military and commercial markets.

### Product Application (6003)

This material is very soft therefore excellently suited to conform to irregular surfaces. In addition, this material exhibits 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 6003 is an excellent mid-level thermal conductive interface material.

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

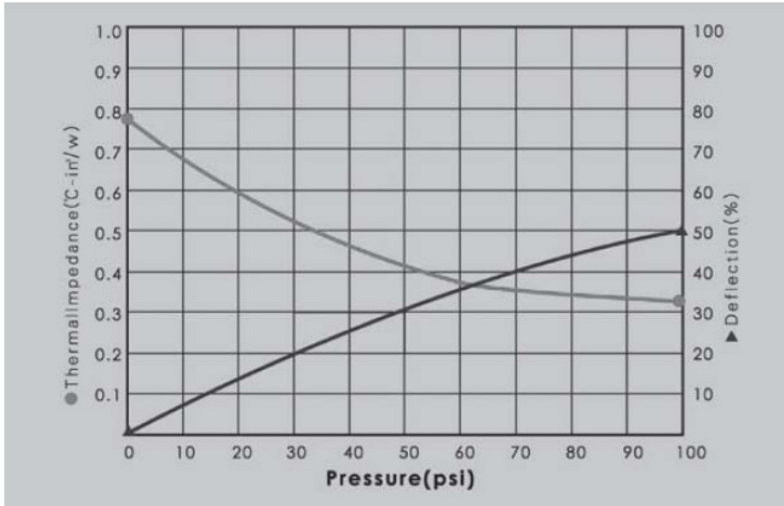


### Product Technical Data (6003)

PROPERTY Material 6003	RANGE	UNIT	TEST METHOD
Color	Dark Red	—————	Visual
Thickness	0.13 - 15	mm	ASTM D374
Specific Gravity	2.26 +/-0.2	g/cm <sup>3</sup>	ASTM D792
Hardness	10 +/-2	Shore A	ASTM D2240
Elongation	282 +/-28	%	ASTM D412
Tensile Strength	7 +/-2	Kgf/cm <sup>2</sup>	ASTM D412
Weight Loss	<1	%	@204°C/24 hr.
Dielectric Breakdown (V)	>5	KV	ASTM D149
Surface Resistance	1.38x10 <sup>14</sup>	Ohm	ASTM D257
Temperature Continuous	-50 to +220	°C	-
Flame Rating	94V-0	UL	UL
Thermal Conductivity	2.2	W/m-k	ASTM D5470

## Thermal Management Materials (6000 Series) 6003 Material (Cont.)

Test Sample Thickness: 1.5mm



### Thermal Resistance vs. Pressure (Gray)

The 6003 material provides low thermal impedance; with increasing pressure, thermal impedance becomes lower.

### Deflection vs. Pressure (Black)

The 6003 material exhibits high deflection (softness); as pressure increases the deflection percentage increases. This material provides good compliance to mating surfaces.