

## Thermal Management Materials, 6016 Material

### Product Summary

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

### Product Application (6016)

This thermally conductive insulator material exhibits excellent insulating capabilities at >4KV along with a thermal conductivity of 1.0W/m-k. In addition, this material exhibits 85 Shore hardness for good cut-through capability. It is excellent for applications such as: power supplies, inverters, transistors MOSFET, and power semiconductors. The material can be supplied in sheet, roll form, and die-cut parts to your specification. Standard thicknesses are: 0.23mm, 0.25mm, 0.3mm, 0.43mm, 0.45mm and 0.85.



### Product Technical Data (6016)

#### Physical

Property	Value	Test method
Material	Fiberglass reinforcement	— — —
Color	Pink	— — —
Hardness ( Shore A )	85 ± 3°	ASTM D 2240
Tensile Strength ( Kg/c m <sup>2</sup> )	60	ASTM D 412
Elongation ( % )	3	ASTM D 412
Continuous Use Temp ( °C )	-50 °C ~ 200 °C	TGA+DMA

## Technical Data (6016) continued

### Electrical

Volume Resistivity ( $\Omega \cdot \text{cm}$ )		$10^{15}$	ASTM D 257
Breakdown Voltage (KV)		>4	ASTM D 149
Dielectric Constant ( $\epsilon$ )	60 Hz	3.6	ASTM D 150
	1K Hz	3.6	
	1M Hz	3.5	
Dielectric Dissipation	60 Hz	0.012	ASTM D 150
	1K Hz	0.009	
Factor ( $\tan\delta$ )	1M Hz	0.005	
UL-94		V- 0	UL 94

### Thermal

Thermal Conductivity (W/m-K)		1.0	ASTM D5470
Thermal Resistance@25PSI/T20		$0.3^{\circ}\text{C} \cdot \text{in}^2/\text{W}$	ASTM D5470