



# E-Song America, Inc.

100%  
RoHS Compliant  
Products

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## THERMAL INTERFACE ELECTRIC INSULATOR SHEET

### ■ Characteristic

THEAH sheets are hard type thermally conductive silicone rubber, recommended for power transistors or thermistors. High thickness accuracy. They provide good electrical insulation, thermal conductivity, and cushion. Flame Retardant UL94 V0. Available in tape rolls,

### ■ Application

- Thermally conductive electrical insulator for semiconductors
- Heaters, temperature fuses, temperature sensors, which thickness accuracy is important
- Cushion rubber for LCD.LC.FPC bonding (ACF bonding process)
- As heat resistant gaskets and packings
- Compression joining thermistors and thermal sensors

### ■ Technical data

	THEAH810	THEAH812
Thickness (mm)	0.20 <sup>±0.02</sup> , 0.25 <sup>±0.02</sup> , 0.30 ~ 1.0 <sup>±0.03</sup>	0.20 <sup>±0.02</sup> , 0.25 <sup>±0.02</sup> , 0.30 ~ 1.0 <sup>±0.03</sup>
Color	Gray	Green
Thermal Conductivity (W/mk)	1.0	1.12
Reinforcement	N/A	N/A
Adhesive Tape (User Option)	Available	Available
Specific Gravity (g/cm <sup>3</sup> )	2.20	2.35
Hardness (Shore A)	75	75
Tensile Strength (MPa)	5	5
Continuous Usage Temp. (°C)	-60 to +180	-60 to +180
Elongation (%)	120	100
Tear Strength (kgf/cm)	12	12
Volume Resistivity (ohm-meter)	5.0 x 10 <sup>9-14</sup>	3.0 x 10 <sup>9-13</sup>
Dielectric Strength (kV)	13	12
Dielectric Constant	4.5	4.4 ~ 4.9

	THEAH909F	THEAH916F
Thickness (mm)	0.13 <sup>±0.02</sup> , 0.23 <sup>±0.02</sup> , 0.28 <sup>±0.02</sup>	0.13 <sup>±0.02</sup> , 0.23 <sup>±0.02</sup> , 0.28 <sup>±0.02</sup>
Color	Pink/Gray	Pink/Pink
Thermal Conductivity (W/mk)	0.90	1.60
Reinforcement	Glass Fiber	Glass Fiber
Adhesive Tape (User Option)	Available	Available
Specific Gravity (g/cm <sup>3</sup> )	2.20	2.35
Hardness (Shore A)	85	90
Tensile Strength (MPa)	10	12
Continuous Usage Temp. (°C)	-60 to +180	-60 to +180
Elongation (%)	20	25
Tear Strength (kgf/cm)	6	6
Volume Resistivity (ohm-meter)	2.0 x 10 <sup>13</sup>	5.0 x 10 <sup>13</sup>
Dielectric Strength (kV)	20	20
Dielectric Constant	4.6	4.5

