



E-Song America, Inc.

100%
RoHS Compliant
Products

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THERMALLY CONDUCTIVE SILICONE ADHESIVES

THEA-E20



THEA-G20



THEA-G65



THEA-P2100



THEA-P4100



Technical data

	THEA-E20	THEA-G20	THEA-G65
Appearance	Flowable paste, gray	Flowable paste, gray	Flowable paste, gray
Viscosity (23°C) Pa-s	20	20	65
Cure Process	1 hour @150°C	1 hour @150°C	1 hour @150°C
Appearance After Cure	Elastic rubber	Gel	Gel
Specific Gravity @23°C	2.70	2.50	2.62
Penetration (23°C)	N/A	10	12
Thermal Conductivity (W/mk)	2.0	1.8	2.4
Hardness (Shore A)	80	N/A	N/A
Tensile Strength (MPa)	4.0	N/A	N/A
Elongation (%)	50	N/A	N/A
Adhesive Strength (MPa)	2.5	N/A	N/A
Volume Resistivity (MΩ-cm)	4.8 x 10 ⁶	2 x 10 ¹⁴	1 x 10 ¹⁴
Glass Transition Temperature (°C)	N/A	-115	-121
Maximum Service Temperature (°C)	N/A	+200	+200
Dielectric Strength (kV/mm)	20	N/A	N/A
Dielectric Constant 60Hz)	5.5	N/A	N/A
Dissipation Factor (60Hz)	0.001	N/A	N/A

	THEA-P2100	THEA-P4100
Appearance	Paste, gray	Paste, gray
Viscosity (23°C) Pa-s	250	300
Specific Gravity @23°C	2.9	2.9
Thermal Conductivity (W/mk)	2.1	4.1
Thermal Resistance (mm ² k/W(um))	20	8
Bleed @150°C / 24h (Wt%)	<0.1	<0.1
Evaporation @150°C / 24h (Wt%)	0.3	0.3
Volume Resistivity (TΩ-cm)	0.05	0.05
Dielectric Strength (kV/0.25mm)	4.1	4.1
Service Temperature (°C)	-50 to +170	-50 to +170