

# SILTEL



## *Thermally Conductive Films, Gap Pads and Dispensable Gap Fillers*

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## THERMALLY CONDUCTIVE SILICONE FILMS

SP Film	
	<b>Polyimide Film Coated</b>
<i>Category</i>	Silicone Film
<i>Chemistry</i>	Ceramic Filled Silicone
<i>Color</i>	Light Brown
<i>Reinforcement</i>	<b>POLYIMIDE</b>
<i>Available Formats</i>	Rolls, Sheets or Die Cuts
<i>Adhesive Tack Option</i>	Yes (SIL1 - 0.001"/0.025mm)
<b>Thickness:</b>	<b>0.0043" / 0.11mm</b>
<i>Thermal Impedance @ 30 PSI</i>	0.55 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 150 PSI</i>	0.29 °C in <sup>2</sup> / W
<i>Operating Temp</i>	-65C to 180C
<i>Breakdown Voltage</i>	6 kV AC
<b>Thickness:</b>	<b>0.0057" / 0.15mm</b>
<i>Thermal Impedance @ 30 PSI</i>	0.75 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 150 PSI</i>	0.40 °C in <sup>2</sup> / W
<i>Operating Temp</i>	-65C to 180C
<i>Breakdown Voltage</i>	> 6 kV AC
<i>RoHS Compliant</i>	Yes
<i>UL Certification</i>	UL94-V0

REVISION: M

SF-TC1.2 Film	
<i>Thermal Conductivity</i>	<b>1.2 W/m-K</b>
<i>Category</i>	Silicone Film
<i>Chemistry</i>	Ceramic Filled Silicone
<i>Color</i>	Gray
<i>Reinforcement</i>	Fiberglass
<i>Available Formats</i>	Rolls, Sheets or Die Cuts
<i>Adhesive Tack Option</i>	Yes (SIL1 - 0.001"/0.025mm)
<b>Thickness:</b>	<b>0.008" / 0.20mm</b>
<i>Thermal Impedance @ 30 PSI</i>	0.79 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 150 PSI</i>	0.55 °C in <sup>2</sup> / W
<i>Tensile Strength</i>	5.0 kpsi
<i>Operating Temp</i>	-50C to 180C
<i>Breakdown Voltage</i>	5.5 kV AC
<i>Volume Resistivity</i>	> 1.0 x 10 <sup>11</sup> ohm-cm
<b>Thickness:</b>	<b>0.012" / 0.30mm</b>
<i>Thermal Impedance @ 30 PSI</i>	1.05 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 150 PSI</i>	0.75 °C in <sup>2</sup> / W
<i>Tensile Strength</i>	4.1 kpsi
<i>Operating Temp</i>	-50C to 180C
<i>Breakdown Voltage</i>	> 6.0 kV AC
<i>Volume Resistivity</i>	> 1.0 x 10 <sup>11</sup> ohm-cm
<b>Thickness:</b>	<b>0.018" / 0.45mm</b>
<i>Thermal Impedance @ 30 PSI</i>	1.55 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 150 PSI</i>	1.25 °C in <sup>2</sup> / W
<i>Tensile Strength</i>	2.9 kpsi
<i>Operating Temp</i>	-50C to 180C
<i>Breakdown Voltage</i>	> 6.0 kV AC
<i>Volume Resistivity</i>	> 1.0 x 10 <sup>11</sup> ohm-cm
<i>RoHS Compliant</i>	Yes
<i>UL Certification</i>	UL94-V0

REVISION: D

SF-TC1.6 Film	
<i>Thermal Conductivity</i>	<b>1.6 W/m-K</b>
<i>Category</i>	Silicone Film
<i>Chemistry</i>	Ceramic Filled Silicone
<i>Color</i>	Pink
<i>Reinforcement</i>	Fiberglass
<i>Available Formats</i>	Rolls, Sheets or Die Cuts
<i>Adhesive Tack Option</i>	Yes (SIL1 - 0.001"/0.025mm)
<b>Thickness:</b>	<b>0.009" / 0.23mm</b>
<i>Thermal Impedance @ 30 PSI</i>	0.71 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 150 PSI</i>	0.49 °C in <sup>2</sup> / W
<i>Tensile Strength</i>	2.9 kpsi
<i>Operating Temp</i>	-50C to 180C
<i>Breakdown Voltage</i>	5.5 kV AC
<i>Volume Resistivity</i>	> 1.0 x 10 <sup>11</sup> ohm-cm
<i>RoHS Compliant</i>	Yes
<i>UL Certification</i>	UL94-V0

REVISION: G

## TIMTEL THERMAL

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## Methodology

S: Silicone F: Fiberglass P: Polyimide NSG: Silicone-Free

G: Gap Pad D: Dispensable TC: Thermal Conductivity

**THERMALLY CONDUCTIVE SILICONE FILMS**

<b>SF-TC2.0 Film</b>	
<i>Thermal Conductivity</i>	<b>2.0 W/m-K</b>
<i>Category</i>	Silicone Film
<i>Chemistry</i>	Ceramic Filled Silicone
<i>Color</i>	Dark Brown
<i>Reinforcement</i>	Fiberglass
<i>Available Formats</i>	Rolls, Sheets or Die Cuts
<i>Adhesive Tack Option</i>	Yes (SIL1 - 0.001"/0.025mm)
<b>Thickness:</b>	<b>0.008" / 0.20mm</b>
<i>Thermal Impedance @ 30 PSI</i>	0.61 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 150 PSI</i>	0.31 °C in <sup>2</sup> / W
<i>Tensile Strength</i>	5.6 kpsi
<i>Operating Temp</i>	-40C to 180C
<i>Breakdown Voltage</i>	5.5 kV AC
<i>Volume Resistivity</i>	1.2 x 10 <sup>15</sup> ohm-cm
<b>Thickness:</b>	<b>0.012" / 0.30mm</b>
<i>Thermal Impedance @ 30 PSI</i>	0.74 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 150 PSI</i>	0.45 °C in <sup>2</sup> / W
<i>Tensile Strength</i>	4.0 kpsi
<i>Operating Temp</i>	-60C to 180C
<i>Breakdown Voltage</i>	> 6.0 kV AC
<i>Volume Resistivity</i>	1.2 x 10 <sup>15</sup> ohm-cm
<b>Thickness:</b>	<b>0.018" / 0.45mm</b>
<i>Thermal Impedance @ 30 PSI</i>	0.96 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 150 PSI</i>	0.63 °C in <sup>2</sup> / W
<i>Tensile Strength</i>	2.9 kpsi
<i>Operating Temp</i>	-60C to 180C
<i>Breakdown Voltage</i>	> 6.0 kV AC
<i>Volume Resistivity</i>	1.2 x 10 <sup>15</sup> ohm-cm
<i>RoHS Compliant</i>	Yes
<i>UL Certification</i>	UL94-V0

REVISION: J

<b>SF-TC2.5 Film</b>	
<i>Thermal Conductivity</i>	<b>2.5 W/m-K</b>
<i>Category</i>	Silicone Film
<i>Chemistry</i>	Ceramic Filled Silicone
<i>Color</i>	Gray
<i>Reinforcement</i>	Fiberglass
<i>Available Formats</i>	Rolls, Sheets or Die Cuts
<i>Adhesive Tack Option</i>	Yes (SIL1 - 0.001"/0.025mm)
<b>Thickness:</b>	<b>0.009" / 0.23mm</b>
<i>Thermal Impedance @ 30 PSI</i>	0.47 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 150 PSI</i>	0.24 °C in <sup>2</sup> / W
<i>Tensile Strength</i>	2.9 kpsi
<i>Operating Temp</i>	-40C to 180C
<i>Breakdown Voltage</i>	2.0 kV AC
<i>Volume Resistivity</i>	2.0 x 10 <sup>14</sup> ohm-cm
<i>RoHS Compliant</i>	Yes
<i>UL Certification</i>	UL94-V0

REVISION: K

<b>SF-TC3.0 Film</b>	
<i>Thermal Conductivity</i>	<b>3.0 W/m-K</b>
<i>Category</i>	Silicone Film
<i>Chemistry</i>	Ceramic Filled Silicone
<i>Color</i>	Gray
<i>Reinforcement</i>	Fiberglass
<i>Available Formats</i>	Rolls, Sheets or Die Cuts
<i>Adhesive Tack Option</i>	Yes (SIL1 - 0.001"/0.025mm)
<b>Thickness:</b>	<b>0.008" / 0.20mm</b>
<i>Thermal Impedance @ 30 PSI</i>	0.45 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 150 PSI</i>	0.22 °C in <sup>2</sup> / W
<i>Tensile Strength</i>	3.8 kpsi
<i>Operating Temp</i>	-40C to 180C
<i>Breakdown Voltage</i>	5.5 kV AC
<i>Volume Resistivity</i>	3.3 x 10 <sup>13</sup> ohm-cm
<b>Thickness:</b>	<b>0.012" / 0.30mm</b>
<i>Thermal Impedance @ 30 PSI</i>	0.60 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 150 PSI</i>	0.30 °C in <sup>2</sup> / W
<i>Tensile Strength</i>	2.5 kpsi
<i>Operating Temp</i>	-60C to 180C
<i>Breakdown Voltage</i>	> 6.0 kV AC
<i>Volume Resistivity</i>	3.3 x 10 <sup>13</sup> ohm-cm
<b>Thickness:</b>	<b>0.018" / 0.45mm</b>
<i>Thermal Impedance @ 30 PSI</i>	0.70 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 150 PSI</i>	0.38 °C in <sup>2</sup> / W
<i>Tensile Strength</i>	1.3 kpsi
<i>Operating Temp</i>	-60C to 180C
<i>Breakdown Voltage</i>	> 6.0 kV AC
<i>Volume Resistivity</i>	3.3 x 10 <sup>13</sup> ohm-cm
<i>RoHS Compliant</i>	Yes
<i>UL Certification</i>	UL94-V0

REVISION: O (02-14-19)

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## Methodology

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G: Gap Pad D: Dispensable TC: Thermal Conductivity

**THERMALLY CONDUCTIVE SILICONE FILMS**

<b>SF-TC4.0 Film</b>	
<i>Thermal Conductivity</i>	<b>4.0 W/m-K</b>
<i>Category</i>	Silicone Film
<i>Chemistry</i>	Ceramic Filled Silicone
<i>Color</i>	Light Green
<i>Reinforcement</i>	Fiberglass
<i>Available Formats</i>	Sheets and Die Cuts Only
<i>Adhesive Tack Option</i>	Yes (SIL1 - 0.001"/0.025mm)
<b>Thickness:</b>	<b>0.008" / 0.20mm</b>
<i>Thermal Impedance @ 30 PSI</i>	0.39 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 150 PSI</i>	0.16 °C in <sup>2</sup> / W
<i>Tensile Strength</i>	3.6 kpsi
<i>Operating Temp</i>	-50C to 200C
<i>Breakdown Voltage</i>	3.0 kV AC
<i>Volume Resistivity</i>	1.9 x 10 <sup>15</sup> ohm-cm
<b>Thickness:</b>	<b>0.012" / 0.30mm</b>
<i>Thermal Impedance @ 30 PSI</i>	0.47 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 150 PSI</i>	0.21 °C in <sup>2</sup> / W
<i>Tensile Strength</i>	2.9 kpsi
<i>Operating Temp</i>	-50C to 200C
<i>Breakdown Voltage</i>	6.5 kV AC
<i>Volume Resistivity</i>	2.4 x 10 <sup>15</sup> ohm-cm
<b>Thickness:</b>	<b>0.018" / 0.45mm</b>
<i>Thermal Impedance @ 30 PSI</i>	0.53 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 150 PSI</i>	0.24 °C in <sup>2</sup> / W
<i>Tensile Strength</i>	2.0 kpsi
<i>Operating Temp</i>	-50C to 200C
<i>Breakdown Voltage</i>	9.0 kV AC
<i>Volume Resistivity</i>	3.3 x 10 <sup>15</sup> ohm-cm
<i>RoHS Compliant</i>	Yes
<i>UL Certification</i>	UL94-V0

REVISION: T additional thickness of 0.031" / 0.80mm available

<b>SF-TC5.0 Film</b>	
<i>Thermal Conductivity</i>	<b>5.0 W/m-K</b>
<i>Category</i>	Silicone Film
<i>Chemistry</i>	Ceramic Filled Silicone
<i>Color</i>	White
<i>Reinforcement</i>	Fiberglass
<i>Available Formats</i>	Sheets and Die Cuts Only
<i>Adhesive Tack Option</i>	Yes (SIL1 - 0.001"/0.025mm)
<b>Thickness:</b>	<b>0.008" / 0.20mm</b>
<i>Thermal Impedance @ 30 PSI</i>	0.29 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 150 PSI</i>	0.11 °C in <sup>2</sup> / W
<i>Tensile Strength</i>	1.3 kpsi
<i>Operating Temp</i>	-50C to 200C
<i>Breakdown Voltage</i>	3.0 kV AC
<i>Volume Resistivity</i>	1.7 x 10 <sup>15</sup> ohm-cm
<b>Thickness:</b>	<b>0.012" / 0.30mm</b>
<i>Thermal Impedance @ 30 PSI</i>	0.32 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 150 PSI</i>	0.15 °C in <sup>2</sup> / W
<i>Tensile Strength</i>	1.2 kpsi
<i>Operating Temp</i>	-50C to 200C
<i>Breakdown Voltage</i>	6.0 kV AC
<i>Volume Resistivity</i>	7.9 x 10 <sup>15</sup> ohm-cm
<b>Thickness:</b>	<b>0.018" / 0.45mm</b>
<i>Thermal Impedance @ 30 PSI</i>	0.35 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 150 PSI</i>	0.17 °C in <sup>2</sup> / W
<i>Tensile Strength</i>	0.7 kpsi
<i>Operating Temp</i>	-50C to 200C
<i>Breakdown Voltage</i>	9.0 kV AC
<i>Volume Resistivity</i>	9.2 x 10 <sup>15</sup> ohm-cm
<i>RoHS Compliant</i>	Yes
<i>UL Certification</i>	UL94-V0

REVISION: X additional thickness of 0.031" / 0.80mm available

<b>SF-TC8.0 Film</b>	
<i>Thermal Conductivity</i>	<b>8.0 W/m-K</b>
<i>Category</i>	Silicone Film
<i>Chemistry</i>	Ceramic Filled Silicone
<i>Color</i>	Light Gray
<i>Reinforcement</i>	Fiberglass
<i>Available Formats</i>	Die Cuts Only
<i>Adhesive Tack Option</i>	Yes (SIL1 - 0.001"/0.025mm)
<b>Thickness:</b>	<b>0.008" / 0.20mm</b>
<i>Thermal Impedance @ 30 PSI</i>	0.30 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 150 PSI</i>	0.09 °C in <sup>2</sup> / W
<i>Tensile Strength</i>	1.9 kpsi
<i>Operating Temp</i>	-50C to 200C
<i>Breakdown Voltage</i>	3.2 kV AC
<b>Thickness:</b>	<b>0.012" / 0.30mm</b>
<i>Thermal Impedance @ 30 PSI</i>	0.30 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 150 PSI</i>	0.14 °C in <sup>2</sup> / W
<i>Tensile Strength</i>	1.6 kpsi
<i>Operating Temp</i>	-50C to 200C
<i>Breakdown Voltage</i>	5.0 kV AC
<b>Thickness:</b>	<b>0.018" / 0.45mm</b>
<i>Thermal Impedance @ 30 PSI</i>	0.33 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 150 PSI</i>	0.16 °C in <sup>2</sup> / W
<i>Tensile Strength</i>	1.3 kpsi
<i>Operating Temp</i>	-50C to 200C
<i>Breakdown Voltage</i>	> 6.0 kV AC
<i>RoHS Compliant</i>	Yes
<i>UL Certification</i>	UL94-V0

REVISION: Z

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## Methodology

S: Silicone F: Fiberglass P: Polyimide NSG: Silicone-Free

G: Gap Pad D: Dispensable TC: Thermal Conductivity

## THERMALLY CONDUCTIVE SILICONE FILMS

<b>S-TC2.1 Film (no substrate)</b>	
<i>Thermal Conductivity</i>	<b>2.1 W/m-K</b>
<i>Category</i>	Silicone Film
<i>Chemistry</i>	Ceramic Filled Silicone
<i>Color</i>	Gray
<i>Reinforcement</i>	NONE - Free Standing
<i>Available Formats</i>	Die Cuts Only
<i>Adhesive PSA Backing</i>	Yes (SIL1 - 0.001"/0.025mm)
<b>Thickness:</b>	<b>0.008" / 0.20mm</b>
<i>Thermal Impedance @ 30 PSI</i>	0.50 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 150 PSI</i>	0.30 °C in <sup>2</sup> / W
<i>Tensile Strength</i>	0.45 kpsi
<i>Operating Temp</i>	-50C to 200C
<i>Breakdown Voltage</i>	3.0 kV AC
<i>Volume Resistivity</i>	1.5 x 10 <sup>13</sup> ohm-cm
<b>Thickness:</b>	<b>0.012" / 0.30mm</b>
<i>Thermal Impedance @ 30 PSI</i>	0.56 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 150 PSI</i>	0.35 °C in <sup>2</sup> / W
<i>Tensile Strength</i>	0.45 kpsi
<i>Operating Temp</i>	-50C to 200C
<i>Breakdown Voltage</i>	5.0 kV AC
<i>Volume Resistivity</i>	6.0 x 10 <sup>13</sup> ohm-cm
<b>Thickness:</b>	<b>0.018" / 0.45mm</b>
<i>Thermal Impedance @ 30 PSI</i>	0.59 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 150 PSI</i>	0.41 °C in <sup>2</sup> / W
<i>Tensile Strength</i>	0.45 kpsi
<i>Operating Temp</i>	-50C to 200C
<i>Breakdown Voltage</i>	8.0 kV AC
<i>Volume Resistivity</i>	5.4 x 10 <sup>13</sup> ohm-cm
<i>RoHS Compliant</i>	Yes
<i>UL Certification</i>	UL94-V0

REVISION: L

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## Methodology

S: Silicone F: Fiberglass P: Polyimide NSG: Silicone-Free

G: Gap Pad D: Dispensable TC: Thermal Conductivity

## THERMALLY CONDUCTIVE GAP PAD

SG-TC1.5 Gap Pad	
Thermal Conductivity	<b>1.5 W/m-K</b>
Category	Silicone Gap Pad
Chemistry	Ceramic Filled Silicone
Color	Pink
Reinforcement	NONE
Available Formats	Sheets or Cut Parts
Surface Tack (Standard)	Tacky both sides
Single Side Tack Available:	No
<b>Thickness:</b>	<b>0.020" / 0.50mm</b>
Thermal Impedance @ 10 PSI	0.97 °C in <sup>2</sup> / W
Thermal Impedance @ 30 PSI	0.83 °C in <sup>2</sup> / W
Thermal Impedance @ 60 PSI	0.71 °C in <sup>2</sup> / W
Hardness	65 (Shore 00)
Operating Temp	-50C to 150C
Dielectric Strength	9 kV/mm
Volume Resistivity	1.6 x 10 <sup>13</sup> ohm-cm
<b>Thickness:</b>	<b>0.040" / 1.00mm</b>
Thermal Impedance @ 10 PSI	1.64 °C in <sup>2</sup> / W
Thermal Impedance @ 30 PSI	1.50 °C in <sup>2</sup> / W
Thermal Impedance @ 60 PSI	1.38 °C in <sup>2</sup> / W
Hardness	65 (Shore 00)
Operating Temp	-50C to 150C
Dielectric Strength	9 kV/mm
Volume Resistivity	1.6 x 10 <sup>13</sup> ohm-cm
<b>Thickness:</b>	<b>0.078" / 2.00mm</b>
Thermal Impedance @ 10 PSI	2.50 °C in <sup>2</sup> / W
Thermal Impedance @ 30 PSI	2.08 °C in <sup>2</sup> / W
Thermal Impedance @ 60 PSI	1.82 °C in <sup>2</sup> / W
Hardness	65 (Shore 00)
Operating Temp	-50C to 150C
Dielectric Strength	9 kV/mm
Volume Resistivity	1.6 x 10 <sup>13</sup> ohm-cm

REVISION: C-SI additional thickness of 0.118" / 3.0mm available

SG-TC2.5 Gap Pad	
Thermal Conductivity	<b>2.5 W/m-K</b>
Category	Silicone Gap Pad
Chemistry	Ceramic Filled Silicone
Color	Light Blue
Reinforcement	NONE
Available Formats	Sheets or Cut Parts
Surface Tack (Standard)	Tacky both sides
Single Side Tack Available:	Yes
<b>Thickness:</b>	<b>0.020" / 0.50mm</b>
Thermal Impedance @ 10 PSI	0.32 °C in <sup>2</sup> / W
Thermal Impedance @ 30 PSI	0.29 °C in <sup>2</sup> / W
Thermal Impedance @ 60 PSI	0.27 °C in <sup>2</sup> / W
Hardness	50 (Shore 00)
Operating Temp	-60C to 180C
Dielectric Strength	10 kV/mm
Volume Resistivity	1.0 x 10 <sup>11</sup> ohm-cm
<b>Thickness:</b>	<b>0.040" / 1.00mm</b>
Thermal Impedance @ 10 PSI	0.55 °C in <sup>2</sup> / W
Thermal Impedance @ 30 PSI	0.50 °C in <sup>2</sup> / W
Thermal Impedance @ 60 PSI	0.45 °C in <sup>2</sup> / W
Hardness	50 (Shore 00)
Operating Temp	-60C to 180C
Dielectric Strength	10 kV/mm
Volume Resistivity	1.0 x 10 <sup>11</sup> ohm-cm
<b>Thickness:</b>	<b>0.078" / 2.00mm</b>
Thermal Impedance @ 10 PSI	0.95 °C in <sup>2</sup> / W
Thermal Impedance @ 30 PSI	0.84 °C in <sup>2</sup> / W
Thermal Impedance @ 60 PSI	0.75 °C in <sup>2</sup> / W
Hardness	50 (Shore 00)
Operating Temp	-60C to 180C
Dielectric Strength	10 kV/mm
Volume Resistivity	1.0 x 10 <sup>11</sup> ohm-cm

REVISION: M-SI additional thickness of 0.118" / 3.0mm available

SG-TC2.8 Gap Pad	
Thermal Conductivity	<b>2.8 W/m-K</b>
Category	Silicone Gap Pad
Chemistry	Ceramic Filled Silicone
Color	Gray
Reinforcement	NONE
Available Formats	Sheets or Cut Parts
Surface Tack (Standard)	Tacky both sides
Single Side Tack Available:	Yes
<b>Thickness:</b>	<b>0.020" / 0.50mm</b>
Thermal Impedance @ 10 PSI	0.57 °C in <sup>2</sup> / W
Thermal Impedance @ 30 PSI	0.48 °C in <sup>2</sup> / W
Thermal Impedance @ 60 PSI	0.41 °C in <sup>2</sup> / W
Hardness	65 (Shore 00)
Operating Temp	-40C to 200C
Dielectric Strength	> 10 kV/mm
Volume Resistivity	> 1.0 x 10 <sup>10</sup> ohm-cm
<b>Thickness:</b>	<b>0.040" / 1.00mm</b>
Thermal Impedance @ 10 PSI	0.73 °C in <sup>2</sup> / W
Thermal Impedance @ 30 PSI	0.65 °C in <sup>2</sup> / W
Thermal Impedance @ 60 PSI	0.58 °C in <sup>2</sup> / W
Hardness	65 (Shore 00)
Operating Temp	-40C to 200C
Dielectric Strength	> 10 kV/mm
Volume Resistivity	> 1.0 x 10 <sup>10</sup> ohm-cm
<b>Thickness:</b>	<b>0.078" / 2.00mm</b>
Thermal Impedance @ 10 PSI	1.37 °C in <sup>2</sup> / W
Thermal Impedance @ 30 PSI	1.22 °C in <sup>2</sup> / W
Thermal Impedance @ 60 PSI	1.13 °C in <sup>2</sup> / W
Hardness	65 (Shore 00)
Operating Temp	-40C to 200C
Dielectric Strength	> 10 kV/mm
Volume Resistivity	> 1.0 x 10 <sup>10</sup> ohm-cm

REVISION: V additional thickness of 0.118" / 3.0mm available

## TIMTEL THERMAL

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## Methodology

S: Silicone F: Fiberglass P: Polyimide NSG: Silicone-Free

G: Gap Pad D: Dispensable TC: Thermal Conductivity

Note: GAP PADS RATED PER UL94-VO AND RoHS Compliant

## THERMALLY CONDUCTIVE GAP PAD

SG-TC3.0 Gap Pad	
Thermal Conductivity	<b>3.0 W/m-K</b>
Category	Silicone Gap Pad
Chemistry	Ceramic Filled Silicone
Color	Light Blue
Reinforcement	NONE
Available Formats	Sheets or Cut Parts
Surface Tack (Standard)	Tacky both sides
Single Side Tack Available:	Yes
<b>Thickness:</b>	<b>0.020" / 0.50mm</b>
Thermal Impedance @ 10 PSI	0.26 °C in <sup>2</sup> / W
Thermal Impedance @ 30 PSI	0.24 °C in <sup>2</sup> / W
Thermal Impedance @ 60 PSI	0.22 °C in <sup>2</sup> / W
Hardness	55 (shore 00)
Operating Temp	-60C to 180C
Dielectric Strength	10 kV/mm
Volume Resistivity	1.0 x 10 <sup>11</sup> ohm-cm
<b>Thickness:</b>	<b>0.040" / 1.00mm</b>
Thermal Impedance @ 10 PSI	0.48 °C in <sup>2</sup> / W
Thermal Impedance @ 30 PSI	0.44 °C in <sup>2</sup> / W
Thermal Impedance @ 60 PSI	0.40 °C in <sup>2</sup> / W
Hardness	55 (Shore 00)
Operating Temp	-60C to 180C
Dielectric Strength	10 kV/mm
Volume Resistivity	1.0 x 10 <sup>11</sup> ohm-cm
<b>Thickness:</b>	<b>0.078" / 2.00mm</b>
Thermal Impedance @ 10 PSI	0.88 °C in <sup>2</sup> / W
Thermal Impedance @ 30 PSI	0.77 °C in <sup>2</sup> / W
Thermal Impedance @ 60 PSI	0.68 °C in <sup>2</sup> / W
Hardness	55 (Shore 00)
Operating Temp	-60C to 180C
Dielectric Strength	10 kV/mm
Volume Resistivity	1.0 x 10 <sup>11</sup> ohm-cm

REVISION: R-SI additional thickness of 0.118" / 3.0mm available

SG-TC4.0 Gap Pad	
Thermal Conductivity	<b>4.0 W/m-K</b>
Category	Silicone Gap Pad
Chemistry	Ceramic Filled Silicone
Color	Gray
Reinforcement	NONE
Available Formats	Sheets or Cut Parts
Surface Tack (Standard)	Tacky both sides
Single Side Tack Available:	No
<b>Thickness:</b>	<b>0.020" / 0.50mm</b>
Thermal Impedance @ 10 PSI	0.21 °C in <sup>2</sup> / W
Thermal Impedance @ 30 PSI	0.18 °C in <sup>2</sup> / W
Thermal Impedance @ 60 PSI	0.16 °C in <sup>2</sup> / W
Hardness	60 (shore 00)
Operating Temp	-50C to 160C
Dielectric Strength	> 10 kV/mm
Volume Resistivity	1.0 x 10 <sup>12</sup> ohm-cm
<b>Thickness:</b>	<b>0.040" / 1.00mm</b>
Thermal Impedance @ 10 PSI	0.38 °C in <sup>2</sup> / W
Thermal Impedance @ 30 PSI	0.32 °C in <sup>2</sup> / W
Thermal Impedance @ 60 PSI	0.29 °C in <sup>2</sup> / W
Hardness	60 (shore 00)
Operating Temp	-50C to 160C
Dielectric Strength	> 10 kV/mm
Volume Resistivity	1.0 x 10 <sup>12</sup> ohm-cm
<b>Thickness:</b>	<b>0.078" / 2.00mm</b>
Thermal Impedance @ 10 PSI	0.71 °C in <sup>2</sup> / W
Thermal Impedance @ 30 PSI	0.60 °C in <sup>2</sup> / W
Thermal Impedance @ 60 PSI	0.54 °C in <sup>2</sup> / W
Hardness	60 (shore 00)
Operating Temp	-50C to 160C
Dielectric Strength	> 10 kV/mm
Volume Resistivity	1.0 x 10 <sup>12</sup> ohm-cm

REVISION: W-SI additional thickness of 0.118" / 3.0mm available

SG-TC4.5 Gap Pad	
Thermal Conductivity	<b>4.5 W/m-K</b>
Category	Silicone Gap Pad
Chemistry	Ceramic Filled Silicone
Color	Gray
Reinforcement	NONE
Available Formats	Sheets or Cut Parts
Surface Tack (Standard)	Tacky both sides
Single Side Tack Available:	No
<b>Thickness:</b>	<b>0.020" / 0.50mm</b>
Thermal Impedance @ 10 PSI	0.22 °C in <sup>2</sup> / W
Thermal Impedance @ 30 PSI	0.17 °C in <sup>2</sup> / W
Thermal Impedance @ 60 PSI	0.15 °C in <sup>2</sup> / W
Hardness	60 (Shore 00)
Operating Temp	-50C to 180C
Dielectric Strength	15 kV/mm
<b>Thickness:</b>	<b>0.040" / 1.00mm</b>
Thermal Impedance @ 10 PSI	0.36 °C in <sup>2</sup> / W
Thermal Impedance @ 30 PSI	0.32 °C in <sup>2</sup> / W
Thermal Impedance @ 60 PSI	0.27 °C in <sup>2</sup> / W
Hardness	60 (Shore 00)
Operating Temp	-50C to 180C
Dielectric Strength	15 kV/mm
<b>Thickness:</b>	<b>0.078" / 2.00mm</b>
Thermal Impedance @ 10 PSI	0.68 °C in <sup>2</sup> / W
Thermal Impedance @ 30 PSI	0.55 °C in <sup>2</sup> / W
Thermal Impedance @ 60 PSI	0.42 °C in <sup>2</sup> / W
Hardness	60 (Shore 00)
Operating Temp	-50C to 180C
Dielectric Strength	15 kV/mm

REVISION: U-SI additional thickness of 0.118" / 3.0mm and 0.196" / 5.0mm available

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## Methodology

S: Silicone F: Fiberglass P: Polyimide NSG: Silicone-Free

G: Gap Pad D: Dispensable TC: Thermal Conductivity

Note: GAP PADS RATED PER UL94-VO AND RoHS Compliant

## THERMALLY CONDUCTIVE GAP PAD

SG-TC11.0 Gap Pad	
<i>Thermal Conductivity</i>	<b>11.0 W/m-K</b>
<i>Category</i>	Silicone Gap Pad
<i>Chemistry</i>	Ceramic Filled Silicone
<i>Color</i>	Light Gray
<i>Reinforcement</i>	NONE
<i>Available Formats</i>	Sheets or Cut Parts
<i>Surface Tack</i>	Tacky both sides
<i>Single Side Tack Available:</i>	No
<b>Thickness:</b>	<b>0.040" / 1.00mm</b>
<i>Thermal Impedance @0.90mm</i>	0.17 °C in <sup>2</sup> / W
<i>Thermal Impedance @0.70mm</i>	0.15 °C in <sup>2</sup> / W
<i>Hardness</i>	64 (Shore 00)
<i>Density</i>	3.3 g/cm <sup>3</sup>
<i>Operating Temp</i>	-50C to 180C
<i>Dielectric Strength</i>	15 kV/mm
<b>Thickness:</b>	<b>0.060" / 1.50mm</b>
<i>Thermal Impedance @0.90mm</i>	0.24 °C in <sup>2</sup> / W
<i>Thermal Impedance @0.70mm</i>	0.23 °C in <sup>2</sup> / W
<i>Hardness</i>	64 (Shore 00)
<i>Density</i>	3.3 g/cm <sup>3</sup>
<i>Operating Temp</i>	-50C to 180C
<i>Dielectric Strength</i>	15 kV/mm
<b>Thickness:</b>	<b>0.078" / 2.00mm</b>
<i>Thermal Impedance @0.90mm</i>	0.30 °C in <sup>2</sup> / W
<i>Thermal Impedance @0.70mm</i>	0.27 °C in <sup>2</sup> / W
<i>Hardness</i>	64 (Shore 00)
<i>Density</i>	3.3 g/cm <sup>3</sup>
<i>Operating Temp</i>	-50C to 180C
<i>Dielectric Strength</i>	15 kV/mm

REVISION: Z-SI

SG-TC1.2 Ultra Soft Gap Pad	
<i>Thermal Conductivity</i>	<b>1.2 W/m-K</b>
<i>Category</i>	Silicone Gap Pad
<i>Chemistry</i>	Ceramic Filled Silicone
<i>Color</i>	Pink
<i>Reinforcement</i>	NONE
<i>Available Formats</i>	Sheets or Cut Parts
<i>Surface Tack</i>	Tacky both sides
<i>Single Side Tack Available:</i>	Yes (PSA Laminate)
<b>Thickness:</b>	<b>0.020" / 0.50mm</b>
<i>Thermal Impedance @ 7 PSI</i>	0.48 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 15 PSI</i>	0.39 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 35 PSI</i>	0.31 °C in <sup>2</sup> / W
<i>Hardness</i>	15 (shore 00)
<i>Operating Temp</i>	-40C to 150C
<i>Dielectric Strength</i>	> 6.5 kV/mm
<i>Volume Resistivity</i>	3.5 x 10 <sup>12</sup> ohm-cm
<b>Thickness:</b>	<b>0.040" / 1.00mm</b>
<i>Thermal Impedance @ 7 PSI</i>	1.03 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 15 PSI</i>	0.90 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 35 PSI</i>	0.75 °C in <sup>2</sup> / W
<i>Hardness</i>	15 (shore 00)
<i>Operating Temp</i>	-40C to 150C
<i>Dielectric Strength</i>	> 6.5 kV/mm
<i>Volume Resistivity</i>	3.5 x 10 <sup>12</sup> ohm-cm
<b>Thickness:</b>	<b>0.078" / 2.00mm</b>
<i>Thermal Impedance @ 7 PSI</i>	2.07 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 15 PSI</i>	1.81 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 35 PSI</i>	1.20 °C in <sup>2</sup> / W
<i>Hardness</i>	15 (shore 00)
<i>Operating Temp</i>	-40C to 150C
<i>Dielectric Strength</i>	> 6.5 kV/mm
<i>Volume Resistivity</i>	3.5 x 10 <sup>12</sup> ohm-cm

REVISION: BX-SI

additional thickness of 0.60" /  
1.5mm and 0.118" / 3.0mm available

SG-TC1.3 Ultra Soft Gap Pad	
<i>Thermal Conductivity</i>	<b>1.3 W/m-K</b>
<i>Category</i>	Silicone Gap Pad
<i>Chemistry</i>	Ceramic Filled Silicone
<i>Color</i>	Light Pink
<i>Reinforcement</i>	Fiberglass Reinforced (GF)
<i>Available Formats</i>	Sheets or Cut Parts
<i>Surface Tack</i>	Tacky single side
<b>Thickness:</b>	<b>0.040" / 1.00mm</b>
<i>Thermal Impedance @ 7 PSI</i>	1.86 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 15 PSI</i>	1.85 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 35 PSI</i>	1.77 °C in <sup>2</sup> / W
<i>Hardness</i>	5 (Shore 00)
<i>Operating Temp</i>	-40C to 180C
<i>Dielectric Strength</i>	6 kV/mm
<i>Volume Resistivity</i>	6.2 x 10 <sup>15</sup> ohm-cm
<b>Thickness:</b>	<b>0.078" / 2.00mm</b>
<i>Thermal Impedance @ 7 PSI</i>	2.80 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 15 PSI</i>	2.70 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 35 PSI</i>	2.43 °C in <sup>2</sup> / W
<i>Hardness</i>	5 (Shore 00)
<i>Operating Temp</i>	-40C to 180C
<i>Dielectric Strength</i>	6 kV/mm
<i>Volume Resistivity</i>	6.2 x 10 <sup>15</sup> ohm-cm
<b>Thickness:</b>	<b>0.118" / 3.00mm</b>
<i>Thermal Impedance @ 7 PSI</i>	3.30 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 15 PSI</i>	3.10 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 35 PSI</i>	2.80 °C in <sup>2</sup> / W
<i>Hardness</i>	5 (Shore 00)
<i>Operating Temp</i>	-40C to 180C
<i>Dielectric Strength</i>	6 kV/mm
<i>Volume Resistivity</i>	6.2 x 10 <sup>15</sup> ohm-cm

REVISION: DX-SI

additional thickness of 0.196" / 5.0mm  
available

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## Methodology

S: Silicone F: Fiberglass P: Polyimide NSG: Silicone-Free

G: Gap Pad D: Dispensable TC: Thermal Conductivity

Note: GAP PADS RATED PER UL94-VO AND RoHS Compliant



**THERMALLY CONDUCTIVE GAP PAD**

<b>SG-TC1.4 Ultra Soft Gap Pad</b>	
<i>Thermal Conductivity</i>	<b>1.4 W/m-K</b>
<i>Category</i>	Silicone Gap Pad
<i>Chemistry</i>	Ceramic Filled Silicone
<i>Color</i>	Red/Gray
<i>Reinforcement</i>	Fiberglass Reinforced (GF)
<i>Available Formats</i>	Sheets or Cut Parts
<i>Surface Tack</i>	Tacky single side
<b>Thickness:</b>	<b>0.020" / 0.50mm</b>
<i>Thermal Impedance @ 7 PSI</i>	0.89 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 15 PSI</i>	0.85 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 35 PSI</i>	0.76 °C in <sup>2</sup> / W
<i>Hardness</i>	10 (Shore 00)
<i>Operating Temp</i>	-40C to 180C
<i>Dielectric Strength</i>	20 kV/mm
<b>Thickness:</b>	<b>0.040" / 1.0mm</b>
<i>Thermal Impedance @ 7 PSI</i>	1.54 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 15 PSI</i>	1.44 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 35 PSI</i>	1.26 °C in <sup>2</sup> / W
<i>Hardness</i>	10 (Shore 00)
<i>Operating Temp</i>	-40C to 180C
<i>Dielectric Strength</i>	20 kV/mm
<b>Thickness:</b>	<b>0.078" / 2.0mm</b>
<i>Thermal Impedance @ 7 PSI</i>	2.31 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 15 PSI</i>	2.07 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 35 PSI</i>	1.73 °C in <sup>2</sup> / W
<i>Hardness</i>	10 (Shore 00)
<i>Operating Temp</i>	-40C to 180C
<i>Dielectric Strength</i>	20 kV/mm

REVISION: EX-SI additional thickness of 0.118" / 3.0mm and 0.196" / 5.0mm available

<b>SG-TC2.0 Ultra Soft Gap Pad</b>	
<i>Thermal Conductivity</i>	<b>2.0 W/m-K</b>
<i>Category</i>	Silicone Gap Pad
<i>Chemistry</i>	Ceramic Filled Silicone
<i>Color</i>	Light Blue
<i>Reinforcement</i>	NONE
<i>Available Formats</i>	Sheets or Cut Parts
<i>Surface Tack</i>	Tacky both sides
<i>Single Side Tack Available:</i>	Yes (by film laminate)
<b>Thickness:</b>	<b>0.020" / 0.50mm</b>
<i>Thermal Impedance @ 10 PSI</i>	0.74 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 30 PSI</i>	0.64 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 60 PSI</i>	0.59 °C in <sup>2</sup> / W
<i>Hardness</i>	15 (shore 00)
<i>Operating Temp</i>	-40C to 200C
<i>Dielectric Strength</i>	> 10 kV/mm
<i>Volume Resistivity</i>	1.0 x 10 <sup>10</sup> ohm-cm
<b>Thickness:</b>	<b>0.040" / 1.0mm</b>
<i>Thermal Impedance @ 10 PSI</i>	1.32 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 30 PSI</i>	1.16 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 60 PSI</i>	1.03 °C in <sup>2</sup> / W
<i>Hardness</i>	15 (shore 00)
<i>Operating Temp</i>	-40C to 200C
<i>Dielectric Strength</i>	> 10 kV/mm
<i>Volume Resistivity</i>	1.0 x 10 <sup>10</sup> ohm-cm
<b>Thickness:</b>	<b>0.078" / 2.0mm</b>
<i>Thermal Impedance @ 10 PSI</i>	2.27 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 30 PSI</i>	1.85 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 60 PSI</i>	1.57 °C in <sup>2</sup> / W
<i>Hardness</i>	15 (shore 00)
<i>Operating Temp</i>	-40C to 200C
<i>Dielectric Strength</i>	> 10 kV/mm
<i>Volume Resistivity</i>	1.0 x 10 <sup>10</sup> ohm-cm

REVISION: JX-SI additional thickness of 0.118" / 3.0mm and 0.196" / 5.0mm available

<b>SG-TC2.0J Ultra Soft Gap Pad</b>	
<i>Thermal Conductivity</i>	<b>2.0 W/m-K</b>
<i>Category</i>	Silicone Gap Pad
<i>Chemistry</i>	Ceramic Filled Silicone
<i>Color</i>	Gray
<i>Reinforcement</i>	NONE
<i>Available Formats</i>	Sheets or Cut Parts
<i>Surface Tack</i>	Tacky both sides
<i>Single Side Tack Available:</i>	Yes (no laminate)
<b>Thickness:</b>	<b>0.020" / 0.50mm</b>
<i>Thermal Impedance @ 10 PSI</i>	0.80 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 30 PSI</i>	0.70 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 60 PSI</i>	0.60 °C in <sup>2</sup> / W
<i>Hardness</i>	20 (shore 00)
<i>Operating Temp</i>	-40C to 180C
<i>Dielectric Strength</i>	10 kV/mm
<i>Volume Resistivity</i>	1.0 x 10 <sup>11</sup> ohm-cm
<b>Thickness:</b>	<b>0.040" / 1.0mm</b>
<i>Thermal Impedance @ 10 PSI</i>	1.50 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 30 PSI</i>	1.20 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 60 PSI</i>	1.00 °C in <sup>2</sup> / W
<i>Hardness</i>	20 (shore 00)
<i>Operating Temp</i>	-40C to 180C
<i>Dielectric Strength</i>	10 kV/mm
<i>Volume Resistivity</i>	1.0 x 10 <sup>11</sup> ohm-cm
<b>Thickness:</b>	<b>0.078" / 2.0mm</b>
<i>Thermal Impedance @ 10 PSI</i>	2.30 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 30 PSI</i>	1.80 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 60 PSI</i>	1.40 °C in <sup>2</sup> / W
<i>Hardness</i>	15 (shore 00)
<i>Operating Temp</i>	-40C to 200C
<i>Dielectric Strength</i>	> 10 kV/mm
<i>Volume Resistivity</i>	1.0 x 10 <sup>10</sup> ohm-cm

REVISION: JUS-SI additional thickness of 0.118" / 3.0mm available

## THERMALLY CONDUCTIVE GAP PAD

<b>SG-TC2.4 Ultra Soft Gap Pad</b>	
<i>Thermal Conductivity</i>	<b>2.4 W/m-K</b>
<i>Category</i>	Silicone Gap Pad
<i>Chemistry</i>	Ceramic Filled Silicone
<i>Color</i>	Gray/Red
<i>Reinforcement</i>	NONE
<i>Available Formats</i>	Sheets or Cut Parts
<i>Surface Tack</i>	Tacky both sides
<i>Single Side Tack Available:</i>	Yes (PSA Laminate)
<b>Thickness:</b>	<b>0.020" / 0.50mm</b>
<i>Thermal Impedance @ 10 PSI</i>	0.63 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 30 PSI</i>	0.53 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 60 PSI</i>	0.44 °C in <sup>2</sup> / W
<i>Hardness</i>	15 (Shore 00)
<i>Operating Temp</i>	-40C to 200C
<i>Dielectric Strength</i>	4 kV/mm
<i>Volume Resistivity</i>	1.7 x 10 <sup>13</sup> ohm-cm
<b>Thickness:</b>	<b>0.040" / 1.0mm</b>
<i>Thermal Impedance @ 10 PSI</i>	1.26 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 30 PSI</i>	1.15 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 60 PSI</i>	1.00 °C in <sup>2</sup> / W
<i>Hardness</i>	15 (Shore 00)
<i>Operating Temp</i>	-40C to 200C
<i>Dielectric Strength</i>	4 kV/mm
<i>Volume Resistivity</i>	1.7 x 10 <sup>13</sup> ohm-cm
<b>Thickness:</b>	<b>0.078" / 2.0mm</b>
<i>Thermal Impedance @ 10 PSI</i>	2.03 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 30 PSI</i>	1.79 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 60 PSI</i>	1.49 °C in <sup>2</sup> / W
<i>Hardness</i>	15 (Shore 00)
<i>Operating Temp</i>	-40C to 200C
<i>Dielectric Strength</i>	4 kV/mm
<i>Volume Resistivity</i>	1.7 x 10 <sup>13</sup> ohm-cm

 REVISION: MX-SI  
 0.196" / 5.0mm and 0.394" / 10.0mm available

<b>SG-TC2.5M Ultra Soft Gap Pad</b>	
<i>Thermal Conductivity</i>	<b>2.5 W/m-K</b>
<i>Category</i>	Silicone Gap Pad
<i>Chemistry</i>	Ceramic Filled Silicone
<i>Color</i>	Light Blue
<i>Reinforcement</i>	NONE
<i>Available Formats</i>	Sheets or Cut Parts
<i>Surface Tack</i>	Tacky both sides
<i>Single Side Tack Available:</i>	Yes (no laminate)
<b>Thickness:</b>	<b>0.020" / 0.50mm</b>
<i>Thermal Impedance @ 10 PSI</i>	0.49 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 30 PSI</i>	0.42 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 60 PSI</i>	0.37 °C in <sup>2</sup> / W
<i>Hardness</i>	20 (shore 00)
<i>Operating Temp</i>	-60C to 180C
<i>Dielectric Strength</i>	10 kV/mm
<i>Volume Resistivity</i>	1.0 x 10 <sup>11</sup> ohm-cm
<b>Thickness:</b>	<b>0.040" / 1.0mm</b>
<i>Thermal Impedance @ 10 PSI</i>	0.89 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 30 PSI</i>	0.70 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 60 PSI</i>	0.58 °C in <sup>2</sup> / W
<i>Hardness</i>	20 (shore 00)
<i>Operating Temp</i>	-60C to 180C
<i>Dielectric Strength</i>	10 kV/mm
<i>Volume Resistivity</i>	1.0 x 10 <sup>11</sup> ohm-cm
<b>Thickness:</b>	<b>0.078" / 2.0mm</b>
<i>Thermal Impedance @ 10 PSI</i>	1.20 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 30 PSI</i>	0.89 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 60 PSI</i>	0.74 °C in <sup>2</sup> / W
<i>Hardness</i>	20 (shore 00)
<i>Operating Temp</i>	-60C to 180C
<i>Dielectric Strength</i>	10 kV/mm
<i>Volume Resistivity</i>	1.0 x 10 <sup>11</sup> ohm-cm

REVISION: MUS-SI

<b>SG-TC3.0S Ultra Soft Gap Pad</b>	
<i>Thermal Conductivity</i>	<b>3.0 W/m-K</b>
<i>Category</i>	Silicone Gap Pad
<i>Chemistry</i>	Ceramic Filled Silicone
<i>Color</i>	Pink
<i>Reinforcement</i>	NONE
<i>Available Formats</i>	Sheets or Cut Parts
<i>Surface Tack</i>	Tacky one side by film laminate
<b>Thickness:</b>	<b>0.040" / 1.0mm</b>
<i>Thermal Impedance @ 10 PSI</i>	0.80 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 30 PSI</i>	0.74 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 60 PSI</i>	0.64 °C in <sup>2</sup> / W
<i>Hardness</i>	30 (Shore 00)
<i>Operating Temp</i>	-40C to 200C
<i>Dielectric Strength</i>	> 10 kV/mm
<i>Volume Resistivity</i>	1.0 x 10 <sup>10</sup> ohm-cm
<b>Thickness:</b>	<b>0.078" / 2.0mm</b>
<i>Thermal Impedance @ 10 PSI</i>	1.26 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 30 PSI</i>	1.06 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 60 PSI</i>	0.96 °C in <sup>2</sup> / W
<i>Hardness</i>	30 (Shore 00)
<i>Operating Temp</i>	-40C to 200C
<i>Dielectric Strength</i>	> 10 kV/mm
<i>Volume Resistivity</i>	1.0 x 10 <sup>10</sup> ohm-cm
<b>Thickness:</b>	<b>0.118" / 3.0mm</b>
<i>Thermal Impedance @ 10 PSI</i>	1.83 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 30 PSI</i>	1.51 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 60 PSI</i>	1.32 °C in <sup>2</sup> / W
<i>Hardness</i>	30 (Shore 00)
<i>Operating Temp</i>	-40C to 200C
<i>Dielectric Strength</i>	> 10 kV/mm
<i>Volume Resistivity</i>	1.0 x 10 <sup>10</sup> ohm-cm

REVISION: SS-SI

## TIMTEL THERMAL

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## Methodology

S: Silicone F: Fiberglass P: Polyimide NSG: Silicone-Free

G: Gap Pad D: Dispensable TC: Thermal Conductivity

Note: GAP PADS RATED PER UL94-VO AND RoHS Compliant

**THERMALLY CONDUCTIVE GAP PAD**

<b>SG-TC3.0X Ultra Soft Gap Pad</b>	
<i>Thermal Conductivity</i>	<b>3.0 W/m-K</b>
<i>Category</i>	Silicone Gap Pad
<i>Chemistry</i>	Ceramic Filled Silicone
<i>Color</i>	Light Gray
<i>Reinforcement</i>	NONE
<i>Available Formats</i>	Sheets or Cut Parts
<i>Surface Tack</i>	Tacky one side by film laminate
<b>Thickness:</b>	<b>0.020" / 0.50mm</b>
<i>Thermal Impedance @ 10 PSI</i>	0.49 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 30 PSI</i>	0.43 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 60 PSI</i>	0.36 °C in <sup>2</sup> / W
<i>Hardness</i>	15 (Shore 00)
<i>Operating Temp</i>	-40C to 200C
<i>Dielectric Strength</i>	> 10 kV/mm
<i>Volume Resistivity</i>	1.0 x 10 <sup>10</sup> ohm-cm
<b>Thickness:</b>	<b>0.040" / 1.0mm</b>
<i>Thermal Impedance @ 10 PSI</i>	0.76 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 30 PSI</i>	0.62 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 60 PSI</i>	0.48 °C in <sup>2</sup> / W
<i>Hardness</i>	15 (Shore 00)
<i>Operating Temp</i>	-40C to 200C
<i>Dielectric Strength</i>	> 10 kV/mm
<i>Volume Resistivity</i>	1.0 x 10 <sup>10</sup> ohm-cm
<b>Thickness:</b>	<b>0.078" / 2.0mm</b>
<i>Thermal Impedance @ 10 PSI</i>	1.17 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 30 PSI</i>	0.89 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 60 PSI</i>	0.64 °C in <sup>2</sup> / W
<i>Hardness</i>	15 (Shore 00)
<i>Operating Temp</i>	-40C to 200C
<i>Dielectric Strength</i>	> 10 kV/mm
<i>Volume Resistivity</i>	1.0 x 10 <sup>10</sup> ohm-cm

REVISION: SX-SI additional thickness of 0.118" / 3.0mm available

<b>SG-TC3.2 Soft Gap Pad</b>	
<i>Thermal Conductivity</i>	<b>3.2 W/m-K</b>
<i>Category</i>	Silicone Gap Pad
<i>Chemistry</i>	Ceramic Filled Silicone
<i>Color</i>	Red / Purple
<i>Reinforcement</i>	NONE
<i>Available Formats</i>	Sheets or Cut Parts
<i>Surface Tack</i>	Tacky both sides
<i>Single Side Tack Available:</i>	No
<b>Thickness:</b>	<b>0.020" / 0.50mm</b>
<i>Thermal Impedance @ 10 PSI</i>	0.29 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 30 PSI</i>	0.26 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 60 PSI</i>	0.22 °C in <sup>2</sup> / W
<i>Hardness</i>	37 (Shore 00)
<i>Operating Temp</i>	-40C to 180C
<i>Dielectric Strength</i>	15 kV/mm
<b>Thickness:</b>	<b>0.040" / 1.0mm</b>
<i>Thermal Impedance @ 10 PSI</i>	0.49 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 30 PSI</i>	0.42 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 60 PSI</i>	0.40 °C in <sup>2</sup> / W
<i>Hardness</i>	37 (Shore 00)
<i>Operating Temp</i>	-40C to 180C
<i>Dielectric Strength</i>	15 kV/mm
<b>Thickness:</b>	<b>0.078" / 2.0mm</b>
<i>Thermal Impedance @ 10 PSI</i>	0.86 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 30 PSI</i>	0.76 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 60 PSI</i>	0.68 °C in <sup>2</sup> / W
<i>Hardness</i>	37 (Shore 00)
<i>Operating Temp</i>	-40C to 180C
<i>Dielectric Strength</i>	15 kV/mm

REVISION: TS-SI additional thickness of 0.118" / 3.0mm and 0.196" / 5.0mm available

<b>SG-TC3.3 Soft Gap Pad</b>	
<i>Thermal Conductivity</i>	<b>3.3 W/m-K</b>
<i>Category</i>	Silicone Gap Pad
<i>Chemistry</i>	Ceramic Filled Silicone
<i>Color</i>	Dark Gray
<i>Reinforcement</i>	NONE
<i>Available Formats</i>	Sheets or Cut Parts
<i>Surface Tack</i>	Tacky one side by film laminate
<b>Thickness:</b>	<b>0.020" / 0.50mm</b>
<i>Thermal Impedance @ 10 PSI</i>	0.31 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 30 PSI</i>	0.29 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 60 PSI</i>	0.26 °C in <sup>2</sup> / W
<i>Hardness</i>	45 (Shore 00)
<i>Operating Temp</i>	-40C to 150C
<i>Dielectric Strength</i>	> 10 kV/mm
<i>Volume Resistivity</i>	1.0 x 10 <sup>10</sup> ohm-cm
<b>Thickness:</b>	<b>0.040" / 1.0mm</b>
<i>Thermal Impedance @ 10 PSI</i>	0.51 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 30 PSI</i>	0.45 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 60 PSI</i>	0.40 °C in <sup>2</sup> / W
<i>Hardness</i>	45 (Shore 00)
<i>Operating Temp</i>	-40C to 150C
<i>Dielectric Strength</i>	> 10 kV/mm
<i>Volume Resistivity</i>	1.0 x 10 <sup>10</sup> ohm-cm
<b>Thickness:</b>	<b>0.078" / 2.0mm</b>
<i>Thermal Impedance @ 10 PSI</i>	0.80 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 30 PSI</i>	0.70 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 60 PSI</i>	0.63 °C in <sup>2</sup> / W
<i>Hardness</i>	45 (Shore 00)
<i>Operating Temp</i>	-40C to 150C
<i>Dielectric Strength</i>	> 10 kV/mm
<i>Volume Resistivity</i>	1.0 x 10 <sup>10</sup> ohm-cm

REVISION: US-SI additional thickness of 0.118" / 3.0mm and 0.196" / 5.0mm available

## THERMALLY CONDUCTIVE GAP PAD

<b>SG-TC6.0 Soft Gap Pad</b>	
<i>Thermal Conductivity</i>	<b>6.0 W/m-K</b>
<i>Category</i>	Silicone Gap Pad
<i>Chemistry</i>	Ceramic Filled Silicone
<i>Color</i>	Gray
<i>Reinforcement</i>	NONE
<i>Available Formats</i>	Sheets or Cut Parts
<i>Surface Tack</i>	Tacky both sides
<i>Single Side Tack Available:</i>	Yes (no laminate)
<b>Thickness:</b>	<b>0.020" / 0.50mm</b>
<i>Thermal Impedance @ 10 PSI</i>	0.19 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 30 PSI</i>	0.18 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 60 PSI</i>	0.16 °C in <sup>2</sup> / W
<i>Hardness</i>	45 (Shore 00)
<i>Operating Temp</i>	-60C to 180C
<i>Dielectric Strength</i>	10 kV/mm
<i>Volume Resistivity</i>	1.0 x 10 <sup>13</sup> ohm-cm
<b>Thickness:</b>	<b>0.040" / 1.0mm</b>
<i>Thermal Impedance @ 10 PSI</i>	0.36 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 30 PSI</i>	0.32 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 60 PSI</i>	0.30 °C in <sup>2</sup> / W
<i>Hardness</i>	45 (Shore 00)
<i>Operating Temp</i>	-60C to 180C
<i>Dielectric Strength</i>	10 kV/mm
<i>Volume Resistivity</i>	1.0 x 10 <sup>13</sup> ohm-cm
<b>Thickness:</b>	<b>0.078" / 2.0mm</b>
<i>Thermal Impedance @ 10 PSI</i>	0.56 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 30 PSI</i>	0.49 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 60 PSI</i>	0.41 °C in <sup>2</sup> / W
<i>Hardness</i>	45 (Shore 00)
<i>Operating Temp</i>	-60C to 180C
<i>Dielectric Strength</i>	10 kV/mm
<i>Volume Resistivity</i>	1.0 x 10 <sup>13</sup> ohm-cm

REVISION: WS-SI

<b>SG-TC7.0 Soft Gap Filler Pad</b>	
<i>Thermal Conductivity</i>	<b>7.0 W/m-K</b>
<i>Category</i>	Silicone Gap Filler Pad
<i>Chemistry</i>	Ceramic Filled Silicone
<i>Color</i>	Gray
<i>Reinforcement</i>	NONE
<i>Available Formats</i>	Sheets or Cut Parts
<i>Surface Tack</i>	Tacky both sides
<b>Thickness:</b>	<b>0.040" / 1.0mm</b>
<i>Thermal Impedance @ 10 PSI</i>	0.32 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 30 PSI</i>	0.27 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 60 PSI</i>	0.20 °C in <sup>2</sup> / W
<i>Hardness</i>	55 (Shore 00)
<i>Operating Temp</i>	-40C to 150C
<i>Dielectric Strength</i>	> 10 kV/mm
<i>Volume Resistivity</i>	1.0 x 10 <sup>12</sup> ohm-cm
<b>Thickness:</b>	<b>0.078" / 2.0mm</b>
<i>Thermal Impedance @ 10 PSI</i>	0.67 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 30 PSI</i>	0.59 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 60 PSI</i>	0.45 °C in <sup>2</sup> / W
<i>Hardness</i>	55 (Shore 00)
<i>Operating Temp</i>	-40C to 150C
<i>Dielectric Strength</i>	> 10 kV/mm
<i>Volume Resistivity</i>	1.0 x 10 <sup>12</sup> ohm-cm

REVISION: YP-SI

<b>SG-TC11.0 Soft Gap Filler Pad</b>	
<i>Thermal Conductivity</i>	<b>11.0 W/m-K</b>
<i>Category</i>	Silicone Gap Filler Pad
<i>Chemistry</i>	Ceramic Filled Silicone
<i>Color</i>	Light Gray
<i>Reinforcement</i>	NONE
<i>Available Formats</i>	Sheets or Cut Parts
<i>Surface Tack</i>	Tacky both sides
<b>Thickness:</b>	<b>0.060" / 1.5mm</b>
<i>Thermal Impedance @ 0.8mm</i>	0.14 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 0.5mm</i>	0.10 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 0.2mm</i>	0.06 °C in <sup>2</sup> / W
<i>Operating Temp</i>	-50C to 180C
<i>Dielectric Strength</i>	11 kV/mm
<i>Volume Resistivity</i>	7.0 x 10 <sup>7</sup> ohm-cm
<b>Thickness:</b>	<b>0.078" / 2.0mm</b>
<i>Thermal Impedance @ 1.5mm</i>	0.24 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 0.8mm</i>	0.14 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 0.5mm</i>	0.10 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 0.2mm</i>	0.06 °C in <sup>2</sup> / W
<i>Operating Temp</i>	-50C to 180C
<i>Dielectric Strength</i>	11 kV/mm
<i>Volume Resistivity</i>	7.0 x 10 <sup>7</sup> ohm-cm

REVISION: ZP-SI

**TIMTEL THERMAL**

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## Methodology

S: Silicone F: Fiberglass P: Polyimide NSG: Silicone-Free

G: Gap Pad D: Dispensable TC: Thermal Conductivity

Note: GAP PADS RATED PER UL94-VO AND RoHS Compliant

**THERMALLY CONDUCTIVE GAP PAD**

<b>NSG-TC1.5 Silicone Free Soft Gap Pad</b>	
<i>Thermal Conductivity</i>	<b>1.5 W/m-K</b>
<i>Category</i>	Non-Silicone Gap Pad
<i>Chemistry</i>	TPE Elastomer
<i>Color</i>	Black
<i>Reinforcement</i>	NONE
<i>Available Formats</i>	Sheets or Cut Parts
<i>Surface Tack</i>	Tacky both sides
<b>0.020" / 0.50mm</b>	
<i>Thermal Impedance @ 3 PSI</i>	0.64 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 7 PSI</i>	0.54 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 15 PSI</i>	0.42 °C in <sup>2</sup> / W
<i>Hardness</i>	25 (Shore 00)
<i>Operating Temp</i>	-40C to 120C
<i>Dielectric Strength</i>	>10 kV/mm
<i>Volume Resistivity</i>	1.0 x 10 <sup>10</sup> ohm-cm
<b>0.040" / 1.00mm</b>	
<i>Thermal Impedance @ 3 PSI</i>	1.19 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 7 PSI</i>	0.98 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 15 PSI</i>	0.74 °C in <sup>2</sup> / W
<i>Hardness</i>	25 (Shore 00)
<i>Operating Temp</i>	-40C to 120C
<i>Dielectric Strength</i>	>10 kV/mm
<i>Volume Resistivity</i>	1.0 x 10 <sup>10</sup> ohm-cm
<b>0.078" / 2.00mm</b>	
<i>Thermal Impedance @ 3 PSI</i>	2.20 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 7 PSI</i>	1.70 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 15 PSI</i>	1.30 °C in <sup>2</sup> / W
<i>Hardness</i>	25 (Shore 00)
<i>Operating Temp</i>	-40C to 120C
<i>Dielectric Strength</i>	>10 kV/mm
<i>Volume Resistivity</i>	1.0 x 10 <sup>10</sup> ohm-cm

REVISION: GUS-NS

<b>NSG-TC1.5R Silicone Free Gap Pad</b>	
<i>Thermal Conductivity</i>	<b>1.5 W/m-K</b>
<i>Category</i>	Non-Silicone Gap Pad
<i>Chemistry</i>	TPE Elastomer
<i>Color</i>	Red
<i>Reinforcement</i>	NONE
<i>Available Formats</i>	Sheets or Cut Parts
<i>Surface Tack</i>	Tacky both sides
<b>0.020" / 0.50mm</b>	
<i>Thermal Impedance @ 3 PSI</i>	0.77 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 7 PSI</i>	0.72 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 15 PSI</i>	0.69 °C in <sup>2</sup> / W
<i>Hardness</i>	55 (Shore 00)
<i>Operating Temp</i>	-40C to 120C
<i>Dielectric Strength</i>	>10 kV/mm
<i>Volume Resistivity</i>	1.0 x 10 <sup>10</sup> ohm-cm
<b>0.040" / 1.00mm</b>	
<i>Thermal Impedance @ 3 PSI</i>	1.36 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 7 PSI</i>	1.27 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 15 PSI</i>	1.11 °C in <sup>2</sup> / W
<i>Hardness</i>	55 (Shore 00)
<i>Operating Temp</i>	-40C to 120C
<i>Dielectric Strength</i>	>10 kV/mm
<i>Volume Resistivity</i>	1.0 x 10 <sup>10</sup> ohm-cm
<b>0.078" / 2.00mm</b>	
<i>Thermal Impedance @ 3 PSI</i>	2.41 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 7 PSI</i>	2.05 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 15 PSI</i>	1.84 °C in <sup>2</sup> / W
<i>Hardness</i>	55 (Shore 00)
<i>Operating Temp</i>	-40C to 120C
<i>Dielectric Strength</i>	>10 kV/mm
<i>Volume Resistivity</i>	1.0 x 10 <sup>10</sup> ohm-cm

REVISION: G-NS

<b>NSG-TC2.0 Silicone Free Gap Pad</b>	
<i>Thermal Conductivity</i>	<b>2.0 W/m-K</b>
<i>Category</i>	Non-Silicone Gap Pad
<i>Chemistry</i>	Elastomer
<i>Color</i>	Red
<i>Reinforcement</i>	NONE
<i>Available Formats</i>	Sheets or Cut Parts
<i>Surface Tack</i>	Tacky both sides
<i>Single Side Tack Available:</i>	Yes (film laminate)
<b>0.020" / 0.50mm</b>	
<i>Thermal Impedance @ 10 PSI</i>	0.74 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 30 PSI</i>	0.65 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 60 PSI</i>	0.54 °C in <sup>2</sup> / W
<i>Hardness</i>	45 (Shore 00)
<i>Operating Temp</i>	-40C to 120C
<i>Dielectric Strength</i>	>10 kV/mm
<i>Volume Resistivity</i>	1.0 x 10 <sup>10</sup> ohm-cm
<b>0.040" / 1.00mm</b>	
<i>Thermal Impedance @ 10 PSI</i>	1.33 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 30 PSI</i>	1.11 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 60 PSI</i>	0.86 °C in <sup>2</sup> / W
<i>Hardness</i>	45 (Shore 00)
<i>Operating Temp</i>	-40C to 120C
<i>Dielectric Strength</i>	>10 kV/mm
<i>Volume Resistivity</i>	1.0 x 10 <sup>10</sup> ohm-cm
<b>0.078" / 2.00mm</b>	
<i>Thermal Impedance @ 10 PSI</i>	2.48 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 30 PSI</i>	1.89 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 60 PSI</i>	1.27 °C in <sup>2</sup> / W
<i>Hardness</i>	45 (Shore 00)
<i>Operating Temp</i>	-40C to 120C
<i>Dielectric Strength</i>	>10 kV/mm
<i>Volume Resistivity</i>	1.0 x 10 <sup>10</sup> ohm-cm

REVISION: HS-NS

additional thickness of 0.118" / 3.0mm available

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**Methodology**

S: Silicone F: Fiberglass P: Polyimide NSG: Silicone-Free

G: Gap Pad D: Dispensable TC: Thermal Conductivity

Note: GAP PADS RATED PER UL94-VO AND RoHS Compliant

**THERMALLY CONDUCTIVE GAP PAD AND DISPENSABLE GAP FILLER**

<b>NSG-TC15.0 Silicone Free Gap Pad</b>	
<i>Thermal Conductivity</i>	<b>15.0 W/m-K</b>
<i>Category</i>	Non-Silicone Gap Pad
<i>Chemistry</i>	Elastomer
<i>Color</i>	Dark Brown
<i>Reinforcement</i>	NONE
<i>Available Formats</i>	Sheets or Cut Parts
<i>Surface Tack</i>	Tacky both sides
<b>0.020" / 0.50mm</b>	
<i>Thermal Impedance @ 10 PSI</i>	0.25 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 30 PSI</i>	0.21 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 60 PSI</i>	0.17 °C in <sup>2</sup> / W
<i>Hardness</i>	63 (Shore 00)
<i>Operating Temp</i>	-50C to 110C
<i>Dielectric Strength</i>	0.7 kV/mm
<i>Volume Resistivity</i>	1.0 x 10 <sup>5</sup> ohm-cm
<b>0.040" / 1.00mm</b>	
<i>Thermal Impedance @ 10 PSI</i>	0.38 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 30 PSI</i>	0.32 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 60 PSI</i>	0.27 °C in <sup>2</sup> / W
<i>Hardness</i>	63 (Shore 00)
<i>Operating Temp</i>	-50C to 110C
<i>Dielectric Strength</i>	0.7 kV/mm
<i>Volume Resistivity</i>	1.0 x 10 <sup>5</sup> ohm-cm
<b>0.078" / 2.00mm</b>	
<i>Thermal Impedance @ 10 PSI</i>	0.59 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 30 PSI</i>	0.49 °C in <sup>2</sup> / W
<i>Thermal Impedance @ 60 PSI</i>	0.42 °C in <sup>2</sup> / W
<i>Hardness</i>	63 (Shore 00)
<i>Operating Temp</i>	-50C to 110C
<i>Dielectric Strength</i>	0.7 kV/mm
<i>Volume Resistivity</i>	1.0 x 10 <sup>5</sup> ohm-cm

REVISION: Z-NS

<b>DSG-TC2.0 Dispensable Gap Filler</b>	
<i>Thermal Conductivity</i>	<b>2.0 W/m-K</b>
<i>Stage</i>	2 Part (A and B)
<i>Category</i>	Dispensable Gap Filler
<i>Chemistry</i>	Ceramic Filled Silicone
<i>Color</i>	Yellow (A) / White (B)
<i>Cartridge Sizes</i>	50ml (25ml x 2) 100ml (50ml x 2)
<b>Part A and Part B Properties</b>	
<i>Density @ 25C</i>	1.9 g/cm <sup>3</sup>
<i>Mixing Ratio</i>	1:1
<i>Hardness</i>	52 (Shore 00)
<i>Viscosity (10rpm @ 25C)</i>	A: 260 Pas B: 260 Pas
<i>Viscosity Mixed (10rpm @ 25C)</i>	260 Pas
<i>Pot Life @ 25C / 65% RH)</i>	> 120 minutes
<i>No Paint Wetting Impairment</i>	Passed (PWIS)
<i>Curing Time @ 25C</i>	< 24 hours
<i>Curing Time @ 100C</i>	15 to 30 minutes
<i>Operating Temp</i>	-50C to 150C
<i>Dielectric Strength</i>	> 10 kV/mm
<i>Volume Resistivity</i>	1.0 x 10 <sup>10</sup> ohm-cm
<i>Shelf Life</i>	6 months @ < 40C
<b>Features</b>	
<i>Low volatile siloxane content (LV)</i>	
<i>No paint wetting impairment</i>	
<i>Remains elastic after polymerization</i>	
<i>No stress on components</i>	
<i>Heat accelerated curing</i>	
<i>Shock absorbing</i>	
<i>Natural low level tack</i>	

REVISION: TDG-L

<b>DSG-TC3.0 Dispensable Gap Filler</b>	
<i>Thermal Conductivity</i>	<b>3.0 W/m-K</b>
<i>Stage</i>	2 Part (A and B)
<i>Category</i>	Dispensable Gap Filler
<i>Chemistry</i>	Ceramic Filled Silicone
<i>Color</i>	Blue (A) / White (B)
<i>Cartridge Sizes</i>	50ml (25ml x 2) 100ml (50ml x 2)
<b>Part A and Part B Properties</b>	
<i>Density @ 25C</i>	2.75 g/cm <sup>3</sup>
<i>Mixing Ratio</i>	1:1
<i>Hardness</i>	55 (Shore 00)
<i>Viscosity (10rpm @ 25C)</i>	A: 290 Pas B: 260 Pas
<i>Viscosity Mixed (10rpm @ 25C)</i>	275 Pas
<i>Pot Life @ 25C / 65% RH)</i>	> 120 minutes
<i>No Paint Wetting Impairment</i>	Passed (PWIS)
<i>Curing Time @ 25C</i>	< 15 hours
<i>Curing Time @ 100C</i>	15 to 30 minutes
<i>Operating Temp</i>	-50C to 150C
<i>Dielectric Strength</i>	> 10 kV/mm
<i>Volume Resistivity</i>	1.0 x 10 <sup>10</sup> ohm-cm
<i>Shelf Life</i>	6 months @ < 40C
<b>Features</b>	
<i>Low volatile siloxane content (LV)</i>	
<i>No paint wetting impairment</i>	
<i>Remains elastic after polymerization</i>	
<i>No stress on components</i>	
<i>Heat accelerated curing</i>	
<i>Shock absorbing</i>	
<i>Natural low level tack</i>	

REVISION: TDG-T

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## Methodology

S: Silicone F: Fiberglass P: Polyimide NSG: Silicone-Free

G: Gap Pad D: Dispensable TC: Thermal Conductivity

Note: GAP PADS, DISPENSABLES RATED PER UL94-VO AND RoHS Compliant

**THERMALLY CONDUCTIVE GAP PAD AND DISPENSABLE GAP FILLER**

<b>DSG-TC3.6 Dispensable Gap Filler</b>	
<i>Thermal Conductivity</i>	<b>3.6 W/m-K</b>
<i>Stage</i>	2 Part (A and B)
<i>Category</i>	Dispensable Gap Filler
<i>Chemistry</i>	Ceramic Filled Silicone
<i>Color</i>	Light Blue (A) / White (B)
<i>Cartridge Sizes</i>	50ml (25ml x 2) 100ml (50ml x 2)
<b>Part A and Part B Properties</b>	
<i>Density @ 25C</i>	2.85 g/cm <sup>3</sup>
<i>Mixing Ratio</i>	1:1
<i>Hardness</i>	38 (Shore 00)
<i>Viscosity (10rpm @ 25C)</i>	A: 220 Pas B: 190 Pas
<i>Viscosity Mixed (10rpm @ 25C)</i>	260 Pas
<i>Pot Life @ 25C / 65% RH)</i>	> 100 minutes
<i>No Paint Wetting Impairment</i>	Passed (PWIS)
<i>Curing Time @ 25C</i>	< 15 hours
<i>Curing Time @ 100C</i>	15 to 30 minutes
<i>Operating Temp</i>	-50C to 150C
<i>Dielectric Strength</i>	> 10 kV/mm
<i>Volume Resistivity</i>	1.0 x 10 <sup>14</sup> ohm-cm
<i>Shelf Life</i>	6 months @ < 40C
<b>Features</b>	
<i>Low volatile siloxane content (LV)</i>	
<i>No paint wetting impariment</i>	
<i>Remains elastic after polymerization</i>	
<i>No stress on components</i>	
<i>Heat accelerated curing</i>	
<i>Shock absorbing</i>	
<i>Natural low level tack</i>	

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<b>DSG-TC4.5 Dispensable Gap Filler</b>	
<i>Thermal Conductivity</i>	<b>4.5 W/m-K</b>
<i>Stage</i>	2 Part (A and B)
<i>Category</i>	Dispensable Gap Filler
<i>Chemistry</i>	Ceramic Filled Silicone
<i>Color</i>	Pink (A) / White (B)
<i>Cartridge Sizes</i>	50ml (25ml x 2) 100ml (50ml x 2)
<b>Part A and Part B Properties</b>	
<i>Density @ 25C</i>	3.1 g/cm <sup>3</sup>
<i>Mixing Ratio</i>	1:1
<i>Hardness</i>	60 (Shore 00)
<i>Viscosity (10rpm @ 25C)</i>	A: 330 Pas B: 300 Pas
<i>Viscosity Mixed (10rpm @ 25C)</i>	310 Pas
<i>Pot Life @ 25C / 65% RH)</i>	> 100 minutes
<i>No Paint Wetting Impairment</i>	Passed (PWIS)
<i>Curing Time @ 25C</i>	< 15 hours
<i>Curing Time @ 100C</i>	30 to 60 minutes
<i>Operating Temp</i>	-50C to 150C
<i>Dielectric Strength</i>	> 10 kV/mm
<i>Volume Resistivity</i>	1.0 x 10 <sup>14</sup> ohm-cm
<i>Shelf Life</i>	6 months @ < 40C
<b>Features</b>	
<i>Low volatile siloxane content (LV)</i>	
<i>No paint wetting impariment</i>	
<i>Remains elastic after polymerization</i>	
<i>No stress on components</i>	
<i>Heat accelerated curing</i>	
<i>Shock absorbing</i>	
<i>Natural low level tack</i>	

REVISION: TDG-W

