

Datasheet

## Non-Silicone gel type thermal interface material, 2 W/m K

RS Stock Numbers: 9156082, 9156086, 9156095

GCS-020-NS is a high performance thermal interface non-silicone gel pad.

### Features

- Low contact resistance
- NO Low MW siloxane, Siloxane Volatiles D4~D20 0%
- Super soft
- High compressibility
- Very good thermal conductivity
- Compliancy, high compressibility
- Natural tack
- Low oil bleed- long term stability
- Electrical insulation



### Configurations

RS Stock Number	Part number	Total thickness	Sheet size
9156082	GCS-020-NS-150150-0.5	0.5mm	150x150mm
9156086	GCS-020-NS-150150-1.0	1.0mm	150x150mm
9156095	GCS-020-NS-150150-2.0	2.0mm	150x150mm

### Applications

#### Displays, lighting protection

PDP TV, LCD CCFL and LCD LED display backlight, LED signage, projectors and new display technology.

#### Consumer and industrial electronics

Mobile telephone, communication base station, laptop, notebook, computer servers, handheld gaming devices, memory modules, CPU modules, amplifiers, batteries, and DC to DC convertors power supplies.

#### Automotive electronics

Engine management, electronic suspension, braking systems, communication and multimedia systems, comfort convenience features, vehicle lighting, vehicle controls, hybrid vehicle battery thermal management, electric vehicle thermal management.



Characteristic	Test Method	Value
Colour	Visual	Blue
Thickness mm	-	0.5 - 2.0
Density g/cm <sup>3</sup>	ASTM D792	3.0
Hardness (Shore 00)	ASTM D2240	30
Application temperature °C	-	-40 - +125
Tensile strength psi	ASTM D149	10
Elongation %	ASTM D149	30
Total mass loss %	ASTM E595	<0.5
<b>Compression at T1.0mm</b>		
Deflection@10 psi %	ASTM D575	9
Deflection @20 psi %	ASTM D575	19
Deflection @30 psi %	ASTM D575	28
Deflection @40 psi %	ASTM D575	38
Deflection @50 psi %	ASTM D575	48
<b>Electrical</b>		
Dielectric breakdown kV/mm	ASTM D419	>10
Volume resistivity Ohm-m	ASTM D257	>10 <sup>13</sup>
<b>Thermal</b>		
Thermal conductivity W/m*K	ASTM D5470	2
Thermal impedance @10 psi °C-In2/W	ASTM D5470	0.65
Thermal impedance @30 psi °C-In2/W	ASTM D5470	0.55
Thermal impedance @50 psi °C-In2/W	ASTM D5470	0.45

## Building the part number

Example: GCS - 020 - NS 150150 - 0.5 - XX  
1 2 3 4 5 6

1. GCS series
2. Thermal conductivity
3. Silicone or Non-Silicone
4. Dimensions (mm)
5. Thickness (mm)
6. Custom