

Datasheet

Silicone gel interface material

RS Stock Numbers: 9156058, 9156067, 9156060, 9156064

GCS-060-S is a high performance soft gel type silicone thermal interface material

Features

- Super soft
- High compressibility
- Very good thermal conductivity
- Compliant, high compressibility
- Natural tack
- Low oil bleed- long term stability
- Electrical insulation



Configurations

RS Stock Number	Part number	Total thickness	Sheet size
9156058	GCS-060-S-150150-0.5	0.5mm	150x150mm
9156067	GCS-060-S-150150-1.0	1.0mm	150x150mm
9156060	GCS-060-S-150150-1.5	1.5mm	150x150mm
9156064	GCS-060-S-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 converters 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	Dark Red
Thickness mm	-	0.5 - 2.0
Density g/cm ³	ASTM D792	2.85
Hardness (Shore 00)	ASTM D2240	50
Application temperature °C	-	-50 - +200
Tensile strength MPa	ASTM D412	0.1
Elongation %	ASTM D412	60
Total mass loss %	ASTM E595	<0.4
Compression		
Deflection@10 psi %	ASTM D575	5
Deflection @20 psi %	ASTM D575	10
Deflection @30 psi %	ASTM D575	15
Deflection @40 psi %	ASTM D575	20
Deflection @50 psi %	ASTM D575	25
Electrical		
Dielectric breakdown kV/mm	ASTM D419	>10
Volume resistivity Ohm-m	ASTM D257	>10 ¹²
Thermal		
Thermal conductivity W/m*K	ASTM D5470	6
Thermal impedance @10 psi °C-In ² /W	ASTM D5470	0.34
Thermal impedance @30 psi °C-In ² /W	ASTM D5470	0.32
Thermal impedance @50 psi °C-In ² /W	ASTM D5470	0.28

Building the part number

Example: GCS - 060 - S 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