

ENGLISH

Datasheet

Silicone gel interface material

RS Stock Numbers: 9156073, 9156076, 9156070, 9156089

GCS-080-S is a high performance soft gel type silicone thermal interface material

Features

- 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
9156073	GCS-080-S-150150-0.5	0.5mm	150x150mm
9156076	GCS-080-S-150150-1.0	1.0mm	150x150mm
9156070	GCS-080-S-150150-1.5	1.5mm	150x150mm
9156089	GCS-080-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 covertors power supplies.

Automotive electronics

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

RS, Professionally Approved Products, gives you professional quality parts across all products categories. Our range has been testified by engineers as giving comparable quality to that of the leading brands without paying a premium price.



RS
PRO

Characteristic	Test Method	Value
Colour	Visual	Grey
Thickness mm	-	0.5 - 2.0
Density g/cm ³	ASTM D792	3.3
Hardness (Shore 00)	ASTM	60
Application temperature °C	-	-50 - +200
Tensile strength MPa	ASTM D412	0.1
Elongation %	ASTM D412	40
Total mass loss %	ASTM E595	<0.4
Compression		
Deflection@10 psi %	ASTM D575	3
Deflection @20 psi %	ASTM D575	5
Deflection @30 psi %	ASTM D575	10
Deflection @40 psi %	ASTM D575	15
Deflection @50 psi %	ASTM D575	20
Electrical		
Dielectric breakdown kV/mm	ASTM D419	>10
Volume resistivity Ohm-m	ASTM D257	>1012
Thermal		
Thermal conductivity W/m*K	ASTM D5470	8
Thermal impedence @10 psi °C-In2/W	ASTM D5470	0.24
Thermal impedence @30 psi °C-In2/W	ASTM D5470	0.20
Thermal impedence @50 psi °C-In2/W	ASTM D5470	0.15

Building the part number

Example: $\frac{GCS}{1} - \frac{080}{2} - \frac{S}{3} + \frac{150150}{5} - \frac{0.5}{6} - \frac{XX}{6}$

1. GCS series

- 2. Thermal conductivity
- 3. Silicone or non-silicone
- 4. Dimensions (mm)
- 5. Thickness (mm)
- 6. Custom

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