

Datasheet

Silicone gel, glass filled, interface material

RS Stock Numbers: 9156039, 9156032, 9156036, 9156045

GCS-030-GF is a high performance soft gel type glass filled silicone thermal interface material

Features

- Ultra 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
9156039	GCS-030-GF-150150-0.5	0.5mm	150x150mm
9156032	GCS-030-GF-150150-1.0	1.0mm	150x150mm
9156036	GCS-030-GF-150150-1.5	1.5mm	150x150mm
9156045	GCS-030-GF-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 violet
Thickness mm	-	0.5 - 2.0
Reinforcement	-	Glass fibre
Density g/cm ³	ASTM D792	2.7
Hardness (Shore 00)	ASTM D2240	27
Application temperature °C	-	-50 - 200
Tensile strength MPa	ASTM D412	10
Elongation %	ASTM D412	2
Total mass loss %	ASTM E595	<0.4
Compression		
Deflection@10 psi %	ASTM D575	25
Deflection @20 psi %	ASTM D575	35
Deflection @30 psi %	ASTM D575	44
Deflection @40 psi %	ASTM D575	50
Deflection @50 psi %	ASTM D575	59
Electrical		
Dielectric breakdown kV/mm	ASTM D419	>10
Volume resistivity Ohm-m	ASTM D257	>10 ¹²
Thermal		
Thermal conductivity W/m*K	ASTM D5470	3.0
Thermal impedance @10 psi °C-In2/W	ASTM D5470	0.69
Thermal impedance @30 psi °C-In2/W	ASTM D5470	0.58

Building the part number

Example: GCS - 030 - GF 150150 - 0.5 - XX
1 2 3 4 5 6

1. GCS series
2. Thermal conductivity
3. Glass fibre filled
4. Dimensions (mm)
5. Thickness (mm)
6. Custom