

FEATURES

- Ultra-soft
- High compressibility
- Good thermal conductivity
- Compliancy, high compressibility
- Natural tack
- Low oil bleed: longterm stability
- Electrical insulation

Thermal Interface Sheet, Silicone, 6W/m·K, 150 x 150mm 0.5mm

RS Stock No.: 915-6058



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.



Product Description

RS PRO range of gel type silicone thermal pads which offer high performance and come in a multitude of thermal conductivity ratings and thicknesses. They are ultra-soft and have a natural tack making installation simple and suitable for a wide scope of applications.

Options available:

Silicone gel pad, glass 150x150 mm (glass filled for added performance)

915-6039 - 0.5 mm

915-6032 - 1.0 mm

915-6036 - 1.5 mm

915-6045 - 2.0 mm

Silicone gel pad, 4W/mK, 150x150 mm

915-6048 - 0.5 mm

915-6042 - 1.0 mm

915-6051 - 1.5 mm

915-6054 - 2.0 mm

Silicone gel pad, 6W/mK, 150x150 mm

915-6058 - 0.5 mm

915-6067 - 1.0 mm

915-6060 - 1.5 mm

915-6064 - 2.0 mm

Silicone gel pad, 8W/mK, 150x150 mm

915-6073 - 0.5 mm

915-6076 - 1.0 mm

915-6070 - 1.5 mm

915-6089 - 2.0 mm

General Specifications

Material	Silicone
Self-Adhesive	Yes
Colour	Red
Applications	Electronics components; Flat panel displays; LED (light emitting diode) displays; Engine control units; Computer hard drives; Wireless communication hardware
Flame Rating	V0 UL94
Shelf Life	24months



Electrical Specifications

Dielectric Strength	>10kV/mm
Dielectric Constant at 1kHz	5
Volume Resistivity	>10 ¹² ohm.cm
Insulation Strength	12kV/mm

Mechanical Specifications

Dimensions	150x150mm
Thickness	0.5mm
Length	150mm
Width	150mm
Diameter	75mm
Thermal Conductivity	6W/(m.K)
Hardness	Shore OO 50
Thermal Impedance	<0.28°C-in²/W
Specific Gravity	3.4g/cm ³
Weight Loss	<0.4%
Elongation	60%
Tensile Strength	0.1MPa
Density	2.85g/cm ³
Deflection At 10 psi	3%
Young's Modulus	24N/cm ²
Compression Ratio at 1mm, 40psi	20%
Thermal Resistance	0.8W/m.K
Coefficient Of Thermal Expansion	250ppm/K
Dissipation Factor At 1000kHz	0.013

Operation Environment Specifications

Minimum Operating Temperature	-55°C
Maximum Operating Temperature	200°C



Approvals

Compliance/Certifications	CE / UR / cUR
---------------------------	---------------

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

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	>1012
Thermal		
Thermal conductivity W/m*K	ASTM D5470	6
Thermal impedence @10 psi °C-In2/W	ASTM D5470	0.34
Thermal impedence @30 psi °C-In2/W	ASTM D5470	0.32
Thermal impedence @50 psi °C-In2/W	ASTM D5470	0.28