

## **FEATURES**

- Good thermal conductivity
- Compliancy high compressibility 90%
- Low hardness
  (Shore 00)
- Low oil bleed long term stability
- Electrical insulating

# Thermal Interface Sheet, Gel, 12W/m-K, 150 x 150mm 1mm

RS Stock No.: 707-4783



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 mid performance thermally conductive gap filler which due to their flexible design allows them to fill the air gap between uneven surfaces. Thermal gap pads provide a thermal interface between heatsinks (devices or substances for absorbing unwanted or excess heat) and electronic devices. They're particularly useful where air gaps, rough surface textures or uneven surface topography prevent the use of traditional grease or paste

Options include the following with various thicknesses and thermal conductivity:

707-4730 - 0.5 mm, 2W/mK 707-4749 - 1.0 mm, 2W/mK 707-4742 - 1.5 mm, 2W/mK 707-4746 - 2.0 mm, 2W/mK 707-4755 - 0.5 mm, 4W/mK 707-4758 - 1.0 mm, 4W/mK 707-4752 - 1.5 mm, 4W/mK 707-4761 - 2.0 mm, 4W/mK 707-4768 - 1.0 mm, 6W/mK 707-4777 - 1.5 mm, 6W/mK 707-4770 - 2.0 mm, 6W/mK

<u>707-4774</u> - 0.5 mm, 12W/mK <u>707-4783</u> - 1.0 mm, 12W/mK

#### **General Specifications**

Material	Gel
Self-Adhesive	Yes
Colour	Grey
Applications	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	12kV/mm
Dielectric Constant at 1kHz	5
Volume Resistivity	10 <sup>10</sup> ohm.cm
Insulation Strength	12kV/mm

### Mechanical Specifications

Dimensions	150x150mm
Thickness	1mm
Length	150mm
Width	150mm
Diameter	75mm
Thermal Conductivity	12W/(m.K)
Hardness	Shore OO 60
Thermal Impedance	<0.28°C-in²/W
Specific Gravity	3.4g/cm <sup>3</sup>
Weight Loss	<1%
Elongation	50%
Tensile Strength	15Kgf/cm <sup>2</sup>
Density	3.3g/cm <sup>3</sup>
Deflection At 10 psi	3%
Young's Modulus	24N/cm <sup>2</sup>
Compression Ratio at 1mm, 40psi	40%
Thermal Resistance	0.8W/m.K
Coefficient Of Thermal Expansion	250ppm/K
Dissipation Factor At 1000kHz	0.013

## **Operation Environment Specifications**

Minimum Operating Temperature	-45°C
Maximum Operating Temperature	200°C

# **Thermal Pads**



Approvals

**Compliance/Certifications** 

CE / UR / cUR

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Thermal Conductivity (W/m.kiZ axis) 0 0.8 1.2 1.4 1.6 1.7 1.8 2.2 3.2 3.6 4.0 4.5 5.0 8.0 12

Thermal Conductivity 12W/m.k Hardness 60 (Shore 00)



