

## 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 0.5mm

RS Stock No.: 707-4774



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

[707-4764](#) - 0.5 mm, 6W/mK

[707-4768](#) - 1.0 mm, 6W/mK

[707-4777](#) - 1.5 mm, 6W/mK

[707-4770](#) - 2.0 mm, 6W/mK

[707-4774](#) - 0.5 mm, 12W/mK

[707-4783](#) - 1.0 mm, 12W/mK

## General Specifications

<b>Material</b>	Gel
<b>Self-Adhesive</b>	Yes
<b>Colour</b>	Grey
<b>Applications</b>	Flat panel displays; LED (light emitting diode) displays; Engine control units; Computer hard drives; Wireless communication hardware
<b>Flame Rating</b>	V0 UL94
<b>Shelf Life</b>	24months

## Electrical Specifications

<b>Dielectric Strength</b>	12kV/mm
<b>Dielectric Constant at 1kHz</b>	5
<b>Volume Resistivity</b>	>10 <sup>11</sup> ohm.cm
<b>Insulation Strength</b>	13kV/mm

## Mechanical Specifications

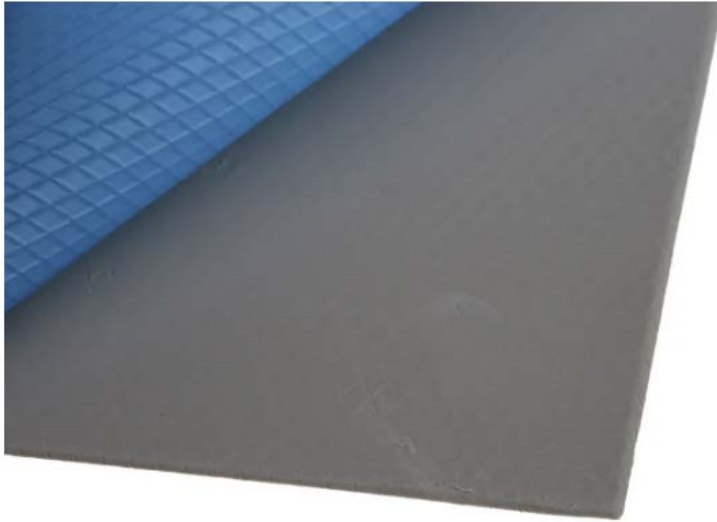
<b>Dimensions</b>	150x150mm
<b>Thickness</b>	0.5mm
<b>Length</b>	150mm
<b>Width</b>	150mm
<b>Diameter</b>	75mm
<b>Thermal Conductivity</b>	12W/(m.K)
<b>Hardness</b>	Shore OO 60
<b>Thermal Impedance</b>	<0.28°C-in <sup>2</sup> /W
<b>Specific Gravity</b>	3.4g/cm <sup>3</sup>
<b>Weight Loss</b>	<1%
<b>Elongation</b>	50%
<b>Tensile Strength</b>	15Kgf/cm <sup>2</sup>
<b>Density</b>	3.3g/cm <sup>3</sup>
<b>Deflection At 10 psi</b>	3%
<b>Young's Modulus</b>	24N/cm <sup>2</sup>
<b>Compression Ratio at 1mm, 40psi</b>	40%
<b>Thermal Resistance</b>	0.8W/m.K
<b>Coefficient Of Thermal Expansion</b>	250ppm/K
<b>Dissipation Factor At 1000kHz</b>	0.013

## Operation Environment Specifications

<b>Minimum Operating Temperature</b>	-45°C
<b>Maximum Operating Temperature</b>	200°C

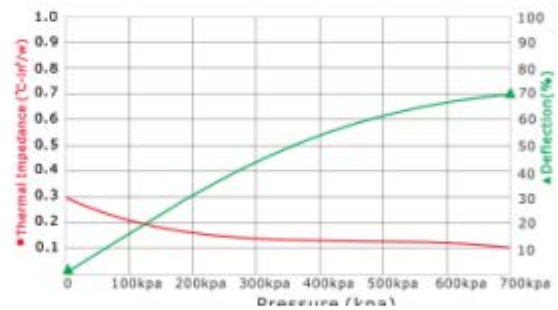
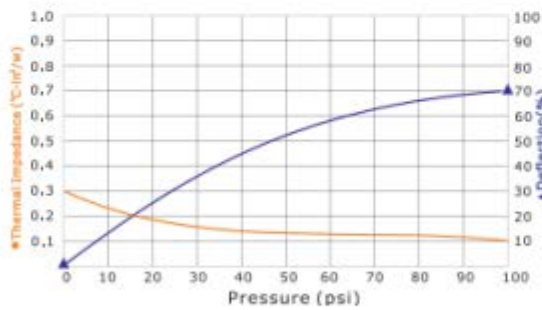
## Approvals

<b>Compliance/Certifications</b>	CE / UR / cUR
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## Thermal Resistance VS Pressure VS Deflection



## Properties

Thermal Conductivity: 12 W/mK  
(W/mK - Z Axis)



Hardness: 60 (Shore 00)  
(Shore 00)

