

FEATURES

- Thermally conductive graphite interface material
- Great thermal conductivity
- Black in colour
- Hardness 80 Shore A
- Easy to use

Thermal Interface Sheet, Graphite, 10W/m·K, 150 x 150mm 0.16mm, Self- Adhesive

RS Stock No.: 794-3973



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 thermally conductive graphite interface material heat pads which are available in plain, 1 sided adhesive and PET coated.

Options for these thermal pads include:

- [7943979](#) - 50x150x0.16 mm, no adhesive
- [7943973](#) - 150x150x0.16 mm, 1-side adhesive
- [7943982](#) - 150x150x0.50 mm, no adhesive
- [7943985](#) - 150x150x0.50 mm, 1-side adhesive
- [7943989](#) - 150x150x0.50 mm, PET coated, no adhesive
- [7943998](#) - 150x150x0.80 mm, no adhesive
- [7943991](#) - 150x150x0.80 mm, 1-side adhesive
- [7943995](#) - 150x150x0.80 mm, PET coated, no adhesive

General Specifications

Material	Graphite
Self-Adhesive	Yes
Colour	Black
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 ¹⁰ ohm.cm
Insulation Strength	12kV/mm

Mechanical Specifications

Dimensions	150x150mm
Thickness	0.16mm
Length	150mm
Width	150mm
Diameter	75mm
Thermal Conductivity	10W/(m.K)
Hardness	Shore A 80
Thermal Impedance	<0.28°C-in ² /W
Specific Gravity	3.4g/cm ³
Weight Loss	<1%
Elongation	50%
Tensile Strength	15Kgf/cm ²
Density	3.3g/cm ³
Deflection At 10 psi	3%
Young's Modulus	24N/cm ²
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	-50°C
Maximum Operating Temperature	150°C

Approvals

Compliance/Certifications	CE / UR / cUR
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Property	T	T-1	P-1	Unit
Type	Graphite	Graphite + adhesive	Graphite + PET	-
Colour	Black	Black	Black	
Thermal Conductivity	X-Y,350	X-Y,350	X-Y,350	W/mK
	Z,13	Z,10	Z,8	W/mK
Flammability Rating	V-0	V-0	V-0	UL 94
Specific Gravity	1.3 - 1.5			g/cm3
Graphite Contained	99.5	99.5	99.5	%
Hardness	80	80	80	Shore A

ADHESIVE			
Item	Unit	Value	Test Method
180° peel strength	N/	≥6	GB/T2792-1998
Initial bonding strength	Kg/inch	≥8	GB/T2792-1998
Holding stick strength	h/1gk/	≥24	GB/T2792-1998
Temperature resistance	°C	-50--150	VIF-W1-Y6- II
Thermal conductivity	W/MK	10	

Part No.	Description	Property
7943979	150x150x0.16mm, no adhesive	T
7943973	150x150x0.16mm, 1-side adhesive	T-1
7943982	150x150x0.50mm, no adhesive	T
7943985	150x150x0.50mm, 1-side adhesive	T-1
7943989	150x150x0.50mm, PET coated, no adhesive	P-1
7943998	150x150x0.80mm, no adhesive	T
7943991	150x150x0.80mm, 1-side adhesive	T-1
7943995	150x150x0.80mm, PET coated, no adhesive	P-1