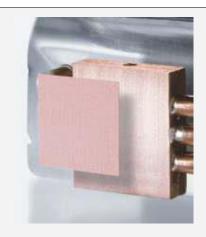




Standard Films: Keratherm Red



This film is especially suitable for highpower applications It has excellent thermal electrical properties. Thanks to its good performance, the Keratherm red can be used reliably in densely packed electronic applications.

APPLICATIONS

- "High End" Thermal Solutions
- Controlling Boards
- BGA Applications
- Hard-Disk Drives

DISCLAIMER: Purchaser shall be solely responsible for determining the adequacy of the product for any and all uses which the purchaser shall apply the product, and the application of the product by the purchaser shall not be subject to any implied warranty of fitness for that purpose.

Properties symb		unit	86/82 w/fiberglass	86/83 w/fiberglass		
Color		red		red		
Thermal Properties						
Thermal Resistance	R _{th}	R _{th} K/W 0.09		0.07		
Thermal Impedance	R _{ti} °Cmm²/W 35 Kin²/W 0.05			31.2 0.04		
Thermal Conductivity	λ	W/mK	6.5	8.0		
Electrical Properties						
Breakdown Voltage	$U_{d;ac}$	kV	1.0	1.0		
Dielectric Breakdown	E _{d;ac}	KV/mm	4.0	4.0		
Volume Resistivity		Ω cm	2.0 x 10 ¹⁴	5.9 x 10 ¹⁵		
Dielectric Loss Factor	$tan \ \delta$	1	1.4 x 10 ⁻³	3.0 x 10 ⁻²		
Dielectric Constant	ε _r	1	2.4	1.83		
Mechanical Propertie	s					
Overall Thickness (±10%)		mm	0.250	0.250		
Hardness		Shore A	60 - 70	55 - 70		
Tensile Strength		N/mm²	13	10		
Elongation		%	2	2		
Physical Properties						
Application Temperature		°C	-40 to +200	-40 to +200		
Density Flame class		g/cm³	1.23	1.10		
		UL	94V-0	=		
Possible Thickness		mm	0.25 - 0.50			

On request, these films can also be supplied with fiberglass reinforcement and with or without adhesive coating. The excellent thermal resistance of this film enables the optimum heat transfer to the heat sink.

Options for Keratherm Red (Standard Film):

Type Film Structure		Overall Thickness	TML	Tensile Strength	Thermal Resistance	
		mm	Ma%	N/mm ²	K/W	Kin ² /W
86/82lb	86/82 with fiberglass and adhesive coating	0.250	< 0.29	10	0.14	0.09

The following thicknesses are available: 0.250 mm, 0.3 mm, 0.4 mm, 0.5 mm

