Hightech aus der Oberpfalz

Datasheet

Keratherm® - red standard films

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Applications:

- "High End" solutions
- · Controlling boards
- BGA applications
- Hard-disc-drives



				New				
Properties	Unit	86/81	86/82 with fibre glass	86/83 with fibre glass				
Color		red	red	red				
Thermal properties								
Thermal resistance R _{th}	K/W	0.10	0.09 0.09					
Thermal impedance R _{ti}	°Cmm²/W Kin²/W	39 0.07	35 0.05					
Thermal conductivity	W/mK	5.5	6.5	8.0				
Electrical properties								
Breakdown voltage U _{d; ac}	kV	1.0	1.0	1.0				
Dielectric breakdown E _{d; ac}	KV/mm	4.0	4.0	4.0				
Volume resistivity	cm	2.0 x 10 ¹⁴	2.0 x 10 ¹⁴	being tested				
Dielectric loss factor tan	1	1.9 x 10 ⁻³	1.4 x 10 ⁻³	being tested				
Dielectric constant r	1	2.3	2.4	2.4 being tested				
Mechanical properties								
Overall thickness (+/-10%)	mm	0.200	0.250	0.250				
Hardness	Shore A	30	65	55				
Tensile strength	N/mm²	0.6	20	10				
Elongation	%	20	2	2				
Physical properties								
Application temperature	°C	-40 to +200						
Density	g/cm³	2.9	2.35 -					
Flameclass	UL	-	94V-0	-				

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

Options for Keratherm®-red (standard film)

Type	Film structure	Overall thickness	TML	Tensile strength	Thermal resistance	
		mm	Ma%	N/mm²	K/W	Kin²/W
86/82lb	86/82 with fibre glass 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;