Hightech aus der Oberpfalz

Datasheet

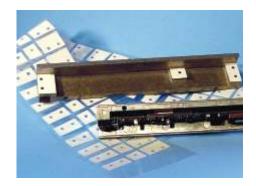
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Keratherm® - silicone free Standard films

Applications:

- Medical application
- Laser equipment
- Space units
- Lighting systems
- Aero units
- CD-Rom drives



Properties	Unit	U 23 basic film	U 80
Color		white	light blue
Thermal properties			
Thermal resistance R _{th}	K/W	0.52	0.20
Thermal impedance R _{ti}	°Cmm²/W	208	73
	Kin ² /W	0.32	0.11
Thermal conductivity	W/mK	1.2	1.8
Electrical properties			
Breakdown voltage U _{d; ac}	kV	9.0	4.0
Dielectric breakdown	cm	4.9 x 10 ¹¹	being tested
Dielectric loss factor tan	1	8.0 x 10 ⁻²	13.0 x 10 ⁻³
Volume resistivity r	1	1.7	3.2
Mechanical properties			
Overall thickness (+/-10%)	mm	0.225	0.150
Hardness	Shore A	85	85
Tensile strength	N/mm²	5.0	3.0
Elongation	%	250	130
Physical properties			
Density	g/cm ³	2.32	2.90
Application temperature	°C	-40 to +90	-40 to +125

optional with adhesive coating

In case of concerns about using silicones, we offer you a ceramic-filled polyurethane film as an alternative material. Besides good thermal and outstanding electrical properties, these films are characterized by very good perforation strength. These good physical properties are matched with an excellent price-performance ratio.

The following optional thicknesses are available: 0.125 mm; 0.250 mm; 0.3 mm; 0,4 mm; 0.5 mm;