

Datasheet

Keratherm[®] - brown standard films

Applications:

- Automotives
- Audio and video components
- White Goods
- Power converters (AC-DC, DC-DC)
- Engine controllers
- LCD displays



Properties	Unit	70/50 with fibre glass
Color		brown
Thermal properties		
Thermal resistance R_{th}	K/W	0.44
Thermal impedance R_{ti}	$^{\circ}Cmm^2/W$	178
	Kin^2/W	0.27
Thermal conductivity	W/mK	1.4
Electrical properties		
Breakdown voltage $U_{d; ac}$	kV	4.0
Dielectric breakdown $E_{d; ac}$	KV/mm	16
Volume resistivity	cm	1.0×10^{13}
Dielectric loss factor tan	1	7.3×10^{-3}
Dielectric constant ϵ_r	1	3.6
Mechanical properties		
Overall thickness (+/-10%)	mm	0.250
Hardness	Shore A	85
Tensile strength	N/mm ²	10
Elongation	%	5
Physical properties		
Application temperature	$^{\circ}C$	-40 to +200
Density	g/cm ³	2.25
Flameclass	UL	94V-1

Keratherm[®] brown with its very good thermal properties is an excellent choice for cost-effective solutions. These fibreglass reinforced films along with their very smooth surface has very good thermal resistance with a high insulation capacity at low mounting pressures.

Options for Keratherm[®] -brown (standard film)

Type	Film structure	Overall thickness mm	Tensile strength N/mm ²	Thermal resistance	
				K/W	Kin^2/W
70/60	70/50 with reinforcement and adhesive coating	0.275	10	0.52	0.34

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

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