

Standard Films: Keratherm Brown



Keratherm® Brown with its very good thermal properties is an excellent choice for cost-effective solutions.

APPLICATIONS

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

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	symbol	unit	70/50 w/fiberglass
Color			brown
Thermal Properties			
Thermal Resistance	R_{th}	K/W	0.44
Thermal Impedance	R_{ti}	$^{\circ}Cmm^2/W$ Kin^2/W	178 0.27
Thermal Conductivity	λ	W/mK	1.4
Electrical Properties			
Breakdown Voltage	$U_{d;ac}$	kV	5.0
Dielectric Breakdown	$E_{d;ac}$	KV/mm	20
Volume Resistivity		Ωcm	1.0×10^{13}
Dielectric Loss Factor	$\tan \delta$	1	7.3×10^{-3}
Dielectric Constant	ϵ_r	1	3.6
Mechanical Properties			
Overall Thickness ($\pm 10\%$)		mm	0.250
Hardness		Shore A	80 – 90
Tensile Strength		N/mm ²	10
Elongation		%	5
Physical Properties			
Application Temperature		$^{\circ}C$	-40 to +200
Density		g/cm ³	2.18
Flame class		UL	94V-1
Possible Thickness		mm	0.250 – 0.500

This fiberglass reinforced film along with its very smooth surface has very good thermal resistance properties with a high insulation capacity at low mounting pressures.

Options for Keratherm Brown (Standard Film):

Type	Film Structure	Overall Thickness	Tensile Strength	Thermal Resistance	
		mm	N/mm ²	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