



A 0.3 mm thin carbon film heater which provides unbeatable heat.

ComfortFilm is typically used in areas where a flat, homogenous and easy to handle heating film is required, such as residential or commercial buildings for flooring, wall and ceilings or heating of Mass Transportation vehicles like Railcars, Busses or Cruise ships.

ComfortFilm has excellent chemical resistance and is a tough material with good fatigue resistance.

ComfortFilm Data Sheet

The **ComfortFilm** can be embedded in most flooring materials and coatings and has a compatible surface material which is suitable for bonding with these materials.



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ComfortFilm

Data Sheet

ENCAPSULATING MATRIX

(Standard)

	Physical Properties	Temperature max.
PP/ SCRIM	<ul style="list-style-type: none"> Flexible Perforated 	120°C - 248°F
PETG/ SCRIM	<ul style="list-style-type: none"> Semi-flexible Non-perforated 	150°C - 302°F

MECHANICAL DATA

Heat conductor thickness	μm	100-150
Density	g/m^3	1.0-1.37
Max. Tensile Strength	Mpa	20
Elongation at break	%	2.8
Modulus of Tension	Gpa	7



Dimensional Properties

Total Width	mm	1050	700	525	350	210
	inch.	41.3	27.6	20.7	13.8	8.3
Heating Width	mm	1000	650	475	300	160
	inch.	39.4	25.6	18.7	11.8	6.3
Max. Length	m	500	500	500	500	500
	Ft.	1640	1640	1640	1640	1640
Weight	g/m^2	250	250	250	250	250
Thickness	μm	240	240	240	240	240

Electrical and physical properties

Resistance	Ω/sq	4.0 - 55.0 +/- 7%
Resistance/Lenght	Ω/mt	0.5 - 55.0 +/- 7%
Range of use	Volt	0-48 vDC & 0-230 vAC
Power	W/m^2 $0.3 \text{ W}/\text{inch}^2$	up to 500 W/m^2 Typical up to 0.5 W/inch^2
Weight		250g / m^2 or 9.4 oz / yd^2

- Typical temperature application: 28°C to 40°C / 82°F to 104°F
- Surface insulation (Dielectric strength): 0-5KV *
- Cross Bar Copper / Typical Cross section: 20 mm x 0.035 mm
- Open perforated area: 20%

(*Combined with woven glass epoxy 1.5 mm thick)